

FIELD NOTE BOOK

COLLECTION

NUMBERS

No 4.

H. A. ALLARD.

4767-6103

H. A. Allard Field Notes 4767-6103

See #4895, 4896, 4897
collected under date of May 12, 1938
on Short Mountain, Massachusetts;
Mr. W. W. Diehl on this trip.
This material entered out of
date order #4896 - Cetaria islandica

June 5, 1938. Collected around Hoperell
Gap, Bull Run Mt. with Mr. Gurney, U.S.N.M.

May 8, 1938. To Devils Hole Mt. in the
Alleghenies with J. E. Lawitzky.

To Devils Hole Mt. April 30, ¹⁹³⁸, with T

Dr. F. J. Hermann on July 30,
1938 identified all my northern Cyperaceae
from Mt. Katahdin and Mt. Washington

Allard, H. A. Mass., Me., Va., W. Va.
1938-1939.

Book 4.

Field Notes nos. 4767 - 6103.

Cyperaceae
his request. all Cyperaceae in this book
identified by him (see lists)

Mt. Washington ^{N.H.} 6293 ft. alt.
Mt. Katahdin, Maine = 5276 ft. "
Climb Mt. Katahdin July 4, 1938
" over slope of " " 5, 1938
" to top of Mt. Katahdin " 6, 1938.
" Mt. Washington via Tuckerman Ravine July 11, 1938
" Mt. Washington, N.H. " Tuckerman Ravine. July 13, 1938

June 26, 1938. To Hoperell Gap with T.
walk across Castell's field to high
knossedge field, thence near old mansion
in woods and up High Point slope
thence to car along ridge.

July 24, 1938. To Hoperell Gap and next slope
below High Point with T. Same
trip made again to same areas July 31, 1938

August 13 & 14, ^{with T.} visited Bull Run area
in vicinity of Thoroughfare Gap and
Broad Run station. stay overnight near
wood stock. August 14, 1938 drive to old
abandoned CCC camp on North Mt. near
Devils Hole Mt. and do most of collecting
here in low ground below spring at
the abandoned CCC camp; alt. about 3800 ft.

{ what in Carex ovales authority
{ see #4779

Oct. 5, 1938. To Hoperell Gap (north)
with Dr. F. J. Hermann.
B-2-B-1

Manufactured by
U. S. Government Printing Office
Pinus rigida forma globosa - #5688
(Oct. 9, 1938)

See #4895, 4896, 4897
collected under date of May 12, 1938
on Short Mountain, Massachusetts;
Mr. W. W. Diehl on this trip.
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To Devil's Hole Mt. April 30, ¹⁹³⁸ with T

Dr. F. J. Hermann on July 30,
1938 identified all my northern Cyperaceae
from Mt. Katahdin and Mt. Washington
areas. He has recently come into the
Division of Plant Exploration and
Introduction as Associate Botanist.
He is a very likeable and confident
bellow it would appear.

am submitting all my Virginia
Cyperaceae to him today, Aug 1, 1938 on
his request. all Cyperaceae in this book
identified by him (see lists)

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in vicinity of Thoroughfare Gap and
Broad Run station. stay overnight near
wood stock. August 14, 1938 drive to old
abandoned C.C.C. camp on North Mt. near

of collecting
spring at
alt. about 3800 ft.
authority

of (north)

with Dr. F. J. Hermann.
B-2-B-1

Manufactured by
U. S. Government Printing Office

Pinus rigida forma *globosa* - #5688
(Oct. 9, 1938)

Plants collected by Dr. F. J. Hermann
with me in Bull Run Mt Oct. 5, 1938.

#9887: *Lespedeza stipulacea* Maxim
cold field west slope near Mrs. Coyle's.

#9888 *Aralypha gracilens* Gray
near brook - west slope below White Rocks.

#9905 *Bartonia virginica* (L.) BSP
in valley road on bank north of
Mrs. Ashby's

Monotropa hypopitys var. *nuba* (Torr.) Tuckerm.
in woods near #9905

add these to my list when pub.

To: (How about *Digitaria biliformis* ?
~~*Digitaria*~~)

Rubus laciniatus Willd.
- #5614 - (Sept. 22, 1938)

#4216a = *Cladonia furcata* var. *ramosa* (Noffm.) Th. Hale.
#5757a = *C. cristatella* f. *ochrocarpia* Tuck. → Th. Hale.
#5772a = *C. " f. cyphulifera* Sandst.
all in Bull Run Mt.

#4618 = *Cladonia squamosa* f. *brevicorticata* (Del.) Evans
and (" " *rigida* Del. according to
Sandstedt,
on Little Stony Creek. Dent's Hole Mt.

#6066 *Cladonia squamosa* f. *dasariella* Wain.
Side. Sandstedt - 4 from Bull Run Mt.

#5054 = *Cetraria islandica*.

See 4784 - water plant at
Berkeley Mill.

Pure white *Prunella vulgaris*
= #5353.

Carex virescens Muhl
4767 wooded slope at
(3) shooting spring,
above Bererley Mill
(Ident by F. J. Hermann)

Bull Run Mt., Va
Fauquier Co.,
Thoroughfare Gap
May 22, 1938
H. A. Allard

Senecio smallii Britton
4768 on railroad bank at left
(3) of railroad above (west) of Bererley Mill.
abundant; full bloom ditto
e

4769 *Oxalis violacea* L.
(1) on Broad Run flood plain
above Bererley Mill ditto
abundant, full bloom in damp woods etc. e

4770 *Hydrophyllum virginianum* L.
(2) on flood plain of Broad Run
just above Bererley at left of railroad.
abundant here: full bloom. My first
locality for Bull Run area. ditto
e

4771 *Carex rostrata* Schreb
(1) Flood plain on Broad Run
above Bererley Mill in moist,
shaded woods here ditto
Ident. by F. J. Hermann e

4772 *Carex caroliniana* Schreb
(1) Growing with # 4771 ditto
(Ident. by F. J. Hermann) e

4773 *Houstonia purpurea* L.
(1) Growing with # 4771 ditto
e

Enphorbiaceae

4774 On flood plain
(1) of Broad Run
above Bererley Mill. ditto
= *Tithymalus obtusatus* (Pursh.) K. S. G. G. e

4775 *Carex lurida* Muhl.
(1) On flood plain with # 4774 ditto
(Ident by F. J. Hermann) e

4776 *Carex flaccida* Schreb
(2) ~~nearby~~ *Potamogeton* L. on stream ditto
Growing with # 4774: abundant. e
(Ident by F. J. Hermann)

4777 *Carex flaccida* Schreb
(1) Growing with # 4774 ditto
and *Carex flaccida* (Kuhn) Schreb. Ident. by F. J. Hermann. e
= 4777A

4778 *Juncus*
also (1) On Broad Run with # 4774 ditto
Juncus acuminatus Michx. Ident. by F. J. Hermann. e
= 4778A

4779 *Cyperaceae*
(1) Growing with # 4774 ditto
Carex flaccida Schreb. Ident. by F. J. Hermann. e

4780 *Carex lurida* Muhl.
(2) Growing with # 4774 ditto
(Ident by F. J. Hermann) e

Carex laevigata (Kük.) Mack Bull Run Mt., Va.
on flood plain Thoroughfare Gap.
4781 of Bull Run Broad Run Fauquier Co
woods below May 22, 1938
rail road just above H. A. Allard
Beverley Mill. (Ident. by F. J. Hermann)

4782 *Carex laevigata* (Kük.) Mack ditto
Growing with # 4781
(Ident. by F. J. Hermann.)

4783 *Juncus macr.* S. F. Gray ditto
Growing with # 4781
(Ident. by F. J. Hermann.)

4784 *Chara* ditto
Nitella

In stagnant pool on Broad Run
flood plain just above Beverley Mill.
May first record of this in Bull Run area.
4785 Note branched branches. Pool filled
with algal scum
Graminea fastuosa obtusa Spreng.
Growing near # 4781

4786 *Carex grisea* Wahl. ditto
Growing with # 4781
(Ident. by F. J. Hermann)

4787 *Conoclophus* ditto
Hepaticae.
On wet bank on Broad Run
just above Beverley Mill.
Jamesoniella autumnalis (DC.) Steff.

Moss Bull Run Mt., Va.
on wet soil beside Broad Run Thoroughfare Gap
4788 just above Beverley Mill Fauquier Co
May 22, 1938
H. A. Allard

4789 *Hepaticae* ditto
on wet bank on Broad Run
just above Beverley Mill

4790 Moss ditto
Growing with # 4788

4791 Lichen ditto
On rocks mostly submerged
in Broad Run just above
Beverley Mill. Hard, crustose,
light ashen gray color. Terraciously
held on rocks, not practically at under line.

4792 *Crataegus crus galli* L. ditto
anthers yellow
In meadow beyond Beverley Mill west of
Thoroughfare Gap. a few flowers out
still evident; mostly past fl.

4793 *Carex annexens* Bickn. ditto
In meadow north of Broad Run
station at left of mill road, where
cooling station stands and R. R. trestle
sharply west toward The Plains.
all plants B. ident. by Hermann.

4794 *Carex annexens* Bickn. ditto
In same meadow as bog with # 4793.
(Ident. by F. J. Hermann)

Carex stipitata Michx.
In bog just north of
Broad Run Station
4795 and west of rail road
(2) where coal-burning station is
and rail road turns sharply
west to The Plains. (Ident. by F. J. Hermann) e

Bull Run Mt., Va
Thoroughfare Gap
May 22, 1938

H. A. Allard

4796 *Carex vulpinoidea* Michx.
(2) Growing with # 4795
all from one clump E.
(Ident. by F. J. Hermann) ditto e

4797 *Carex vulpinoidea* Michx.
(1) Growing with # 4795
(Ident. by F. J. Hermann) ditto e

4798 *Carex vulpinoidea* Michx.
(3) Growing with # 4795
all of clump C
(Ident. by F. J. Hermann) ditto e

4799 *Carex vulpinoidea* Michx.
(1) Growing with # 4795
(Ident. by F. J. Hermann) ditto e

4800 *Carex gracilescens* Steud. (not in Michx.)
(3) In same bog with # 4795
(all from clump i) and
(Ident. by F. J. Hermann) = 4800A ditto e

4801 *Carex lurida* Vahl.
(4) In same bog with # 4795
(all from clump j.)
(Ident. by F. J. Hermann) ditto e

Spiraea latifolia
In meadow
4802 above Broad Run
Station and between
(1) rail road and highway from # 55
to Hotwell Gap. My first record of this
in Bull Run area; not in flower; e
one clump, only, found.

Bull Run Mt., Va
Thoroughfare Gap
Fauquier Co.,
May 22, 1938

H. A. Allard

4803 *Sisyrinchium graminoides* Bicknell
(2) Growing with # 4802;
abundant, full bloom. ditto e

4804 *Carex lasiocarpa* (Kirkenth.) Mack.
(2) Growing with # 4802
(Ident. by F. J. Hermann) ditto e

4805 *Glyceria striata* (Lam.) Hitchc.
(1) Growing in snail with # 4802;
abundant near everywhere in
red ground; full bloom; e
very attractive.

4806 *Carex lurida* Vahl.
(2) In bog with # 4802
(Ident. by F. J. Hermann) ditto e

4807 *Carex incomperta* Bickn.
(1) Growing with # 4802
(Ident. by F. J. Hermann) ditto e

4808 *Carex festuacea* (Schubert) Nutt.
(1) Growing with # 4802
(Ident. by F. J. Hermann)
= *C. normalis* ditto e

Carex gracilescens Steud. Bull Run Mt., Va.
In bog just north of Thoroughfare Gap.
Broad Run station F. J. Hermann Co.
4809 and between highway May 22, 1938
to Hagerell Gap and H. A. Allard
railroad.
(atypical)
(Ident. by F. J. Hermann)

4810 Sisyrinchium graminoides Michx.
(2) Growing with # 4809 ditto
in same meadow; abundant; full
bloom.

4811 Carex grisea Wahl. ditto
(2) Growing with # 4809
(Ident. by F. J. Hermann)

4812 Carex gracilescens Steud. (atypical) ditto
(1) Growing with # 4809
(Ident. by F. J. Hermann)

4813 Carex laeviraginata (Kühn) Mark. ditto
(2) Growing with # 4809
(Ident. by F. J. Hermann)

4814 Carex vulpinoidea Michx. ditto
(1) Growing with # 4809
(Ident. by F. J. Hermann)

4815 Carex vulpinoidea Michx. ditto
(1) Growing with # 4809
(Ident. by F. J. Hermann)

Carex laeviraginata (Kühn) Mark. Bull Run Mt., Va.
all from one clump # K Thoroughfare Gap
4816 Growing in bog with # 4809 May 22, 1938
(Ident. by F. J. Hermann)

4817 Carex lurida Wahl. (immature) ditto
(2) Growing with # 4809
all from one clump L
(Ident. by F. J. Hermann)

4818 Senecio smallii Britton ditto
(2) In meadow with # 4809:
abundant; full bloom

4819 Sphenopholis intermedia (Rydb.) Rydb. ditto
(2) On wooded bank by Hagerell
Gap road, west slope just north of
Broad Run station.
full bloom; attractive.

4820 Lonicera japonica Thunb. ditto
(5) Roadside at Broad Run station
west slope; flowers reddish pinkish,
as compared with those of pure white.
abundant; full bloom in thickets.

4821 Cnephila micocarpa Andry. ditto
(2) Railroad banks just above
Berkeley Mill; abundant here; passing.

4822 Anthemis anensis L ditto
(3) on railroad at Berkeley Mill;
abundant here; full bloom.

Medicago lupulina L. Bull Run Mt., Va.
Legume. Fannin Co.
fl. yellow; seeds reticulated black; Thoroughfare Gap,
4823 nestled along May 22, 1938,
(2) railroad at Thoroughfare Gap, H.A. Allard, e
Berkeley Mill: abundant here; bull bloom.

Carex squarrosa L.
4824 on flood plain of Broad Run ditto
(1) just above Berkeley Mill. e
Heads almost globose.
(Ident. by F. J. Hermann)

Panicum fasci Poir. all arts garden
4825 (4) in rock garden; 3000-7th St. N., Va.
abundant forming Arlington, Va.
large clumps. May 25, 1938
H.A. Allard. e

Potentilla recta L. Near Clark Station, Va.
4826 (4) Roadside near rail cross Arlington Co.,
brick yard; bull bloom. May 25, 1938.
Rare in this area. H.A. Allard. e

Lierum
4827 (1) On stone in woods
Three Mile Mt., Va.
Shenandoah Co.
May 28, 1938
H.A. Allard

Amelanchier canadensis (L.) Medic.
4828 (2) on steep ledge outcrop ditto
at top; very abundant; ripening; e
fruit red

Panicum ashei Pers.
4829 (1) on top of rocky outcrop; dry ditto
e

Umbilicaria pustulata Three Mile Mt., Va.
Shenandoah Co.
on dry sandstone May 28, 1938
4830 out crops and ledges H.A. Allard
(1) everywhere at top; very abundant. e

Mass.
4831 a solid over on dry shales ditto
(1) where a huge hole made by prospectors
for coal is past; in heavy woods. e

Cladonia
4832 (1) reindeer moss ditto
Low down on north slope
on soil

Lichen
4833 (1) *Peltigera* 2 ditto
silver gray. Low down on north slope
on soil; abundant here. Have never met with
this sp. before

Carex vulpinoidea Michx.
4834 (1) in wet meadow at foot north ditto
slope near wheat & cornfield here. e
(Ident. by F. J. Hermann)

Cyperus lineatus Michx.
4835 (2) at foot of north slope ditto
in wet meadow near e
Stony Creek. (Ident. by F. J. Hermann)

Carex Swanii (Torr.) Mark.
4836 (1) in dry soil below Devils Hole Mt., Va.
Shenandoah Co.
May 30, 1938
H.A. Allard, e
marked car on Little
Stony Creek. (Ident. by F. J. Hermann)

Carex mulleriana Schreb. Shenandoah Mt. Va
By roadside May 30, 1938
4837 where re park H.A. Allard
(1) can just tell Shenandoah Co.
Mr. Hines' place in dry soil &
(Ident. by F. J. Hermann)

4838 Moss Trail down Mill Mt. Va
(1) wood road along Shenandoah Co.
Little Stony Creek & May 29, 1938
well above Coffelt's H.A. Allard
on soil. A brilliant, scintillant yellowish green.
with a silky, silvery sheen & very beautiful.
4839 *Carex granulata* Michx. Shenandoah Mt. Va
(3) all from clump A on north slope
at parking place Shenandoah Co.
below Hines' house. May 29, 1938
(Ident. by F. H. Hermann) H.A. Allard

4840 Moss Three Mile Mt. Va
(1) In damp ravine on rocks in damp ravine
died down in moist on north slope
rock surfaces Shenandoah Co.
May 28, 1938
H.A. Allard

4841 *Cyrtus breatus* Michx. ditto
(2) at spring at foot of north
slope in open area in
red soil. (Ident. by F. H. Hermann)

4842 *Carex squarrosa* L. ditto
(6) In wet shady spring
in open at foot of north slope
(Ident. by F. J. Hermann)

4843 Lichen ditto
(1) In damp ravine on soil.
Color ashen gray.
Peltigera ? abundant here.

Lichen - Three Mile Mt. Va
on rocks Shenandoah Co.
near # 4843 May 28, 1938
4844 in same ravine H.A. Allard
(1) abundant here

4845 *Asarum canadense* L. ditto
(3) Shaded woods on north
slope half way down:
abundant; full bloom; flowers
hidden beneath the duff. &

4846 *Ribes coccineum rotundifolium* (Michx.) Cor. Britt. ditto
(2) On upper slope near
ledges; scattered.
(white lines at foot)

4847 *Buphthalmum rotundifolium* L. ditto
(5) On highway near woodstock Great Valley
Locally abundant here; full near woodstock
bloom Shenandoah Co. Va.
May 29, 1938
H.A. Allard

4848 Mint - *Blaphilia ciliata* Raf. ditto
(4) Purple flowered; by roadside
near Manassas on Valley Pike;
only one colony seen.
very showy in grass; stools

4849 Moss Three Mile Mt. Va
(1) In damp ravine Shenandoah Co.
with # 4843 on bank May 28, 1938
a brilliant silvery green with H.A. Allard.
a lively sheen.

4850 Moss ditto
(1) on rocks in same ravine
with # 4843

Moss
on rocks in damp, shaded ravine on
north slope half way down.
4851
(1) Three Mile Mt., Va.
Shenandoah Co., Va.
May 28, 1938
H.A. Allard.

This a very damp moss, covered ravine,
extremely damp, shaded and rich in mosses.

4852 Moss
(1) In same ravine with #485 ditto
on rocks

4853 *Carex cephalophora* Muhl.
(1) on bank near Mill Mt. in woods
(ident. by F. J. Hermann)
On trail down to Mr. Coffelt's along
Little Stony Creek.
Shenandoah Co.
May 29, 1938
H.A. Allard

4854 *Cladonia*
(1) (Reindeer Moss).
On trail near #4853 ditto

4855 *Carex hirsutella* Mark.
(1) Damp soil on same trail
in woods near #4853 ditto
(ident. by F. J. Hermann).

4856 Moss
(1) Submerged on rocks in cold
brook flowing into Little Stony Creek.
in woods 2 miles above Coffelt's.
bright green, ditto

4857 *Carex aestivalis* Schwein.
(1) Growing in wet soil
near #4856. ditto
(ident. by F. J. Hermann)

Carex scoparia Schkuhr. On trail from Mill Mt., Va.
Shenandoah Co., Va.
May 29, 1938
H.A. Allard.
4858 In wet spot
by brook 3 miles
up Little Stony Creek from Coffelt's
(2) (ident. by F. J. Hermann)

4859 *Carex incomperta* Bickn.
(2) Growing in wood road ditto
near #4858
From same clump A.
(ident. by F. J. Hermann)

4860 *Hepatic*
(1) On rocks in damp wooded ravine
half way down north slope; abundant.
Three Mile Mt., Va.
Shenandoah Co.
May 28, 1938
H.A. Allard.

4861 Moss
(1) In same ravine with
#4860 on rocks ditto

4862 Moss
(1) On rocks with #4860 ditto

4863 Moss
(1) On rocks with #4860 ditto

4864 Moss
(1) On rocks with #4860 ditto

Moss
on rocks in damp
wooded ravine
4865 on north slope
(1)

Three Mile Mt., Va
Shenandoah Co
May 28, 1938
H.A. Allard

4866 In same ravine with
(1) X 4865 on rocks; in same
ravine about 4851 ft. green
The only ravine I visited and explored on
the north slope; color very dark green.
4867 It grows down well into deep spaces
between the rocks.
(1) Moss
on rocks in same ravine
with X 4865 ditto

4868 *Carex hirsutella* Mark.
(1) On wood road just
above Mrs. Coffelt's on trail along
to Mill Mt. Little Stony Creek,
Shenandoah Co.
Identified by F. J. Hermann
May 28, 1938
H.A. Allard

4869
(1) *Veronica americana* Schwein.
By brook just above Mrs. Coffelt's
(flower blue) ditto

4870 *Mitchella repens* L.
(1) On bank abundant by
wood road just above Mrs. Coffelt's
on Little Stony Creek.
buds blown out in fruit ditto

4871 *Asplenium montanum* Willd.
(1) On ledge about 1 mile above
Coffelt's; growing in crevices on vertical
cliffs here in deep shade; abundant here.

Moss
on soil on wood
road by Little
4872 Stony Creek.
(1) a beautiful, bright satiny green.
Roman trail of Mill Mt. Va
along Little Stony Creek,
Shenandoah Co.
May 28, 1938
H.A. Allard

4873 Moss
(1) on rocks in brook
submerged near X 4872 ditto

4874 Moss
(1) submerged on rocks with
X 4873 in cold brook. ditto

4875 *Medicago sativa* L.
(4) By roadside near
Woodstock, Va.; full
blossom; fl. blue purple
Great Valley of Va
Shenandoah Co.
May 30, 1938
H.A. Allard

4876 *Cyperus* ~~*scirpus*~~ *lineatus* Michx.
(3) At bridge near Columbia Turnpike
growing on edge of Stony Creek here
(all from one clump) (Ident. by F. J. Hermann) ditto

4877 Grass
(1) Growing beside X 4876
(not abundant here), full flower,
Phalaris arundinacea L. ditto

4878 *Bromus commutatus* Schrad.
(2) on higher ground near X 4876;
abundant by roadside near stone
bridge here. ditto

~~Bromus~~ *Festuca elatior* L
Growing by
4879 roadside, abundant, May 30, 1938
(2) near stone bridge HA, Allard
near Columbia Turnpike,
full bloom. e

4880 *Scirpus validus* Vahl.
(2) Growing in mud and
water near # 4876 near
(one clump) Columbia Turnpike.
Ident. by F. J. Hermann) ditto
e

4881 *Carex hirsutella* Michx.
(3) not spot by roadside opposite
(N.) of Three Mile Mt., Va.
(all from one clump)
Ident. by F. J. Hermann) ditto
e

4882 *Scirpus hirsutus* Michx.
(10) Growing in same wet spot
beside # 4881.
(all from one clump.)
Ident. by F. J. Hermann) ditto
e

4883 *Panicum boscii* Poir
(3) On steep wooded rocky slope
across Little Stony Creek from Coffelt's
(all from one clump) ditto
e

4884 *Panicum huachucae* Ashe
(3) Growing below Hines near Little
Stony Creek where we park car e

4885 *Arrhenatherum elatius* (L.) Muhl.
(4) Growing by roadside near
4884: very abundant here;
full bloom. Reflects a silvery light. e

~~Carex~~ *Boott* Great Valley of Va
Shenandoah Co.,
May 30, 1938
4886 beside Little Stony
Creek where we park
car below Hines' house HA, Allard
(Ident. by F. J. Hermann) e

4887 *Carex muhlenbergii* var. *eneris* Boott
(1) Growing in drier ground
close to # 4886
(Ident. by F. J. Hermann) ditto
e C. *Elythra* Muhl.

4888 *Lieroot* Three Mile Mt. Va
May 28, 1938
(1) on rocks in very
heavily wooded damp
range; abundant
here. Shenandoah Co.
HA, Allard
north slope.)

4889 Moss
(1) Very dark green mats on
rocks with # 4888
abundant here. ditto

4890 Moss
(1) On rocks in same range
with # 4888: abundant.
a lusterless but clear green. ditto

4891 Moss
(1) Growing on rocks near # 4888 ditto

4892 Moss
(1) Growing on rocks with # 4888 ditto

mass
on rocks in damp
moderately
with slope, half
way down
a beautiful bright green species with
a satiny sheen
especially beautiful.

Three Mile Mt., Va

May 28, 1938

H.A. Allard

Shenandoah Co

4894 *Magnolia acuminata* L. Great Valley of Va.
(2) Near Mr. Hines' road of Edinburgh, 10 miles
house where we park Shenandoah Co
cars on Little Stony Creek, May 30, 1938
4895 a huge tree 2 ft thick
50-60 feet high. H.A. Allard.

(1) *Cladonia rangiferina*
on shales at place
out of where *Cetraria islandica*
normal order of date) abundant.
4896 This lichen very abundant among the
Cetraria islandica classes.
(1) *Cetraria islandica*
with # 4895

Short Mountain
Massanutten Range

May 12, 1938

H.A. Allard

4897 *Cladonia*
(1) cup-shaped
growing on shales with # 4895
(Not in order of collection)
ditto

4898 *Tragopogon porrifolius* L.
(6) (purple flowered) some with very short
rays and deeper red-purple in color.
all from near Woodstock. May 29, 1938; many
with mature seed heads; very showy

4899 *Tragopogon dubius* L. var.
(5) From near # 4898; sub sp. major (Jag.) Vahl.
all yellow flowered; bracts on 3 plants
13; on two 12; somewhat later than the
purple; just maturing seed; about as abundant
as purple.

Euphorbia lathyris (L.) Mill
Tithymalus
By roadside near
Hines house
park car on
(3) Little Stony Creek; abundant here.
e

Great Valley of Va.

Shenandoah Co

May 30, 1938

H.A. Allard

4901 *Alliaria canadensis* L.
(2) Roadside near where we
park car not far from # 4900
in flower and producing bulbils.
ditto

4902 *Gnaglossum officinale* L.
(3) In pasture back of Coffelt's
at foot of Little Stony Creek.
(abundant: full bloom)
ditto

4903 *Onoclea sensibilis* (L.) Presl.
(1) on grounds of Agriculture,
in Washington, D.C. at
14 and Independence St.
South Bldg. H.A. Allard
June 3, 1938

4904 *Potentilla recta* L. Bull Run Mt. Va.
(1) Broadside and edge of flat
field between H. Hymenopter June 5, 1938
and right turn west leading to Antioch.
abundant: full bloom here.
H.A. Allard.

4905 *Holcus lanatus* L.
(7) abundant in old field and
pasture and by roadside near
Antioch on right as we leave
Hymenopter to Antioch route from
M. J. first record for Bull Run area
Not here last year. or very scarce
Prince William Co
Triassic area
June 5, 1938
H.A. Allard.

4906 *Panicum ashei* Pers.
(2) Reddish lilac suffusion on tips of glumes
growing grass in mass a roadside east
On cliffs top of High Point.
Bull Run Mt. Va.
Fauquier Co.
June 5, 1938 H.A. Allard

Carex digitalis Willd.
woods west slope below
4907 High Point.
(1) (Ident. by F. J. Hermann)
Bull Run Mt., Va.
June 5, 1938
Fauquier Co.
H. A. Allard.

4908 *Carex cephalophora* Muhl.
(1) Growing near # 4907
(Ident. by F. J. Hermann)
ditto
e

4909 *Carex digitalis* Willd.
(2) Growing with # 4907
(Ident. by F. J. Hermann)
ditto
e

4910 *Panicum lucidum* Ashe (Vernal phase)
(2) In rocky swampy ravine below
High Point west slope, in deciduous
woods.
ditto
e

4911 *Festuca obtusa* Spreng
(2) Near # 4910
ditto.
e

4912 *Carex gracilescens* Steud.
(1) In pasture across from High Point
(west) on Plains area where *Malus glaucescens*
Rehder grows.
(all from one clump) abundant.
(Ident. by F. J. Hermann)
ditto
e

4913 *Carex muhlbergii* var. *enervis* Boott.
(1) Growing with # 4912
abundant: usually few stemmed
individuals. (Ident. by F. J. Hermann)
ditto
e

Panicum lucidum Ashe Bull Run Mt., Va.
Fauquier Co.,
June 5, 1938
H. A. Allard.
4914
(1) e

4915 *Carex cephalophora* Muhl.
(1) In deciduous woods
south of pasture where
Malus glaucescens Rehder grows.
on Plains area west of High Point.
(Ident. by F. J. Hermann)
ditto
e

4916 *Carex luschii* Mack
(1) Growing near # 4912
(Ident. by F. J. Hermann)
ditto
e

4917 *Carex cephalophora* Muhl.
(1) Growing with # 4912
(Ident. by F. J. Hermann)
ditto
e

4918 *Carex hirsutella* Mack
(1) same locality with # 4912
(Ident. by F. J. Hermann)
ditto
e

4919 *Carex cephalophora* Mack
(1) Growing with # 4912
(Ident. by F. J. Hermann)
ditto
e

4920 *Carex hirsutella* Mack.
(1) Growing with # 4912.
(Ident. by F. J. Hermann)
ditto
e

Graminas
In pasture, west of
High Point on Plaines
area where *Mahoe glaucescens* Rehder grows.
4921 *Danthonia compressa* Austin
" (Ident. by F. J. Hermann)

Bull Run Mt., Va
Fauquier Co.,
June 5, 1938
H. A. Allard.

4922 *Carex cephalophora* Muhl
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

4923 *Sphenopholis intermedia* Rydb.
" In white Oak grove west of
High Point on Plaines area; the large
white Oaks here. ditto e

4924 *Carex muhlbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

4925 *Carex muhlbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

4926 *Carex hirsutella* Mark
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

4927 *Danthonia spicata* (L.) Beauv.
" with # 4921 ditto e

" *Carex hirsutella* Mark Bull Run Mt., Va
" ^{same} pasture with # 4921 Fauquier Co.,
June 5, 1938
H. A. Allard.
4928 (Ident. by F. J. Hermann) e

4929 *Carex muhlbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

4930 *Carex muhlbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

4931 *Carex hirsutella* Mark
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

4932 *Carex muhlbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

4933 *Panicum scribnerianum* Nash
" Growing with # 4921 ditto e

4934 *Carex cephalophora* Muhl.
" Growing with # 4921
(Ident. by F. J. Hermann) ditto e

Panicum huachucae Ashe Bull Run Mt., Va.
in pasture west of
High Point on Plains
area where *Malva*
glaucescens grows.
June 5, 1938
H.A. Allard.

4935
" *Labiatae*.
In the pine white oak
woods west of High Point.
= *Parietaria pennsylvanica* Muhl.

4936
" *Carex cephalophora* Muhl.
growing with # 4935
(Ident. by F. J. Hermann)

4937
" *Carex muhlbergii* var. *enervis* Boott.
growing with # 4935
(Ident. by F. J. Hermann)

4938
" *Carex muhlbergii* var. *enervis* Boott.
growing with # 4935
(Ident. by F. J. Hermann)

4939
" *Carex cephalophora* Muhl.
growing with # 4935
(Ident. by F. J. Hermann)

4940
" *Panicum scribnerianum* Nash.
growing with # 4935

Carex cephalophora Muhl., Bull Run Mt., Va.
growing with 4935
June 5, 1938
H.A. Allard.
(Ident. by F. J. Hermann)

4941
" *Panicum basii* var. *molle* (Vasey) H. & A. C.
In woods south of
here # 4935 grows; deciduous.

4942
" *Carex scoparia* Schkuhr
In wet boggy meadow along creek
just across Hopewell to Broad Run Station road
near white oak grove and high black walnut
tree: very wet, boggy here.
(Ident. by F. J. Hermann)

4943
" *Carex vulpinoidea* Michx.
growing near # 4944
(Ident. by F. J. Hermann)

4944
" *Carex vulpinoidea* Michx.
growing with # 4944
(Ident. by F. J. Hermann)

4945
" *Carex scoparia* Schkuhr,
growing near # 4944
(Ident. by F. J. Hermann)

4946
" *Carex vulpinoidea* Michx.
growing in same bog with # 4944
(Ident. by F. J. Hermann)

Carex scoparia Schreb. Bull Run Mt., Va
Tranquar Co
June 5, 1938
4949 In bog near Haperell Gap
west slope from High Point
where big plants naturally stood
below White Oak grove just
west of Haperell to Broad Run station
(Ident. by F. J. Hermann) e

4950 *Carex vulpinoidea* Michx. ditto
(2) Same bog near # 4949
(Ident. by F. J. Hermann) e

4951 *Bromus japonicus* Thunb. ditto
(3) In field (Castell's) where stone
crusher was, just below quarries
abundant.
In cultivation 19 e

4952 *Juncus macrocarpus* S. F. Gray ditto
(1) Growing with # 4951
(Ident. by F. J. Hermann) e

4953 *Houstonia purpurea* L ditto
(2) Growing with # 4951
abundant; full bloom: showy e

4954 *Trifolium procumbens* L ditto
(2) In same field; very abundant
in this pasture where # 4951 grows. e

4955 *Dianthus armeria* L ditto
(1) In same field with # 4951.
also single, but abundant: also in
high brown sedge field beyond where
abundant, but less so than in river field. e

Carex lasiocarpa Lam Bull Run Mt., Va
Tranquar Co.
June 5, 1938
4956 fine brown sedge H. J. Allard.
(1) pasture beyond Castell's,
west slope near Haperell Gap.
(Ident. by F. J. Hermann) e

4957 *Carex hirsutella* Mark. ditto
(1) In high brown sedge field
(a. scoparius) where so finely developed
west slope just south of Haperell Gap.
(Ident. by F. J. Hermann) e

4958 *Carex hirsutella* Mark. ditto
(1) In same field with # 4957
(Ident. by F. J. Hermann) e

4959 *Carex hirsutella* Mark. ditto
(5) Growing in same brown sedge field
with # 4957: scattered all over
this splendid brown sedge stand.
(Ident. by F. J. Hermann) e

4960 *Festuca obtusa* Spreng. ditto
Gramineae
(1) In woods beyond brown sedge
field near # 4956 e

4961 *Panicum barbatum* Michx. ditto
(1) In brown sedge field where # 4957 grows. e

4962 *Carex constricta* Mark. ditto
fine
(1) In woods beyond brown sedge
field, - ie with # 4956 e
(Ident. by F. J. Hermann)

Carex hirsutella Mark.
In woods
just beyond fine
4963 brownedge field
" beyond Castello's,
on west slope just south of Hoperell Gap.
(Ident. by T. J. Hermann)

Bull Run Mt., Va.
Fauquier Co.,
June 5, 1938
H. A. Allard.

4964 *Carex lurida* Wahl.
(4) Beside brook in bog where huge
black walnut tree grows, i.e. near
fine white oak grove. (Ident. by T. J. Hermann)
Very abundant here.

4965 *Carex vulpinoidea* Michx.
(6) In same bog with # 4964
abundant. (Ident. by T. J. Hermann)

4966 *Carex laeviraginata* (Kühn) Mark.
(1) In same bog with # 4964
(Ident. by T. J. Hermann)

4967 *Juncus effusus* var. *solutus* Pers. et Nees.
(2) Tall; in same bog with # 4964
very abundant (Ident. by T. J. Hermann)

4968 *Dianthus armeria* L.
(4) In same fine brownedge field
with # 4957: abundant; just blown.

4969 *Panicum depauperatum* Muhl.
(2) Growing in same brownedge
field with # 4957: abundant here.

Panicum depauperatum Muhl. Bull Run Mt. Va.,
Fauquier Co.
In high brownedge
4970 field with # 4957 June 5, 1938
H. A. Allard.
" "

Sphenopholis intermedia Rydb.
4971 *Grammaea* ditto
(2) In pasture by brook
near Big Black Walnut tree just
west Hoperell-Broad Run highway

4972 *Panicum depauperatum* Muhl.
(1) In brownedge field with # 4957

4973 *Carex hirsutella* Mark.
In high brownedge field so
(3) well developed beyond Riley cabin
beyond Castello's; abundant among dumps.
(Ident. by T. J. Hermann)

4974 *Carex laeviraginata* (Kühn) Mark.
(3) In bog with # 4964: abundant
(Ident. by T. J. Hermann)

4975 *Carex hirsutella* Mark.
(1) In brownedge field
near brook where white oak grove is.
(Ident. by T. J. Hermann)

4976 *Bromus japonicus* Thunb.
(1) In low ground near # 4975:
It is a very abundant grass in
all pastures etc. in area.

Carex vulpinoidea Michx. Bull Run Mt., Va
in bog near brook
49777 ~~under stone~~ ~~valmt~~ ~~the grass~~ - is just east of H.A. Allard
white oak grove
(ident. by F. J. Hermann)

49778 *Glyceria striata* (Lam.) Hitch.
(3) In same bog with # 49777:
very abundant

49779 *Juncus acuminatus* Michx.
(1) Growing with # 49777
(ident. by F. J. Hermann)

4980 *Poa trivialis* L.
Graminal
(1) In field, near # 49777, damp
ground near brook.

4981 *Dactylis glomerata* L.
(1) Old field near # 49777, low ground:
everywhere abundant.

4982 *Bromus cuneatus* Schrad.
(1) In low ground bog with # 49777:
abundant here

4983 *Carex scoparia* Schkuhr.
(5) In same bog with # 49777,
forming large clumps.
(all from same clump)
(ident. by F. J. Hermann)

Juncus macrocarpa S.F.C. Bull Run Mt., Va
in same bog. Franquier Co
4984 with # 49777 June 5, 1938
H.A. Allard.
(ident. by F. J. Hermann)

4985 *Carex scoparia* Schkuhr. ditto
(1) In same bog with # 49777
(5) (one clump) very abundant
(ident. by F. J. Hermann)

4986 *Poa trivialis* L. ditto
(3) In same low ground bog
with # 49777: abundant.

4987 *Senecio smallii* Britton ditto
(3) abundant in high brown sedge
field beyond brook old Riley
cabin S.W. of Castello's: full bloom
abundant everywhere in fields in area.

4988 *Houstonia missouriensis* L. ditto
(2) In same brown sedge field
with # 4987: abundant: full bloom

4989 *Apoecynum androsaemifolium* R.Br. ditto
abundant in same brown sedge
field with # 4987: a constant
weevil: full bloom or just
coming in.

4990 *Rosa virginiana* Mill. ditto
(2) In same brown sedge field
with # 4987: abundant here:
full bloom: showy.

Pentstemon pallidus Small
 4991 (9) very abundant by roadside in road leading from #55 highway near Antioch. June 5, 1938 H.A. Allard. ^{Prince William Co}
 found in Bull Run area: not seen here in 1937, or very scarce: now very abundant. Corolla pale almost white.

4992 *Asplenium platyneuron* (L.) Oakes Bull Run Mt., Va. June 5, 1938 H.A. Allard. ^{Franklin Co.}
 (1) In fine, browned edge field beyond Riley's, coming in places - around rocks etc. First fern to appear south of Hagerwell Gap.

4993 *Rosa blanda* virginiana Mill ditto
 (1) In same field with # 4992 abundant: full bloom here

4994 *Apocynum pubescens* R. Br. ditto
 (3) In same brown sedge field with # 4992: abundant; just in flower a common constituent of browned edge fields; in woods.

4995 *Botrychium virginianum* (L.) Sm. ditto
 (2) In woods south of Males glaucescens Rehder abundant here and in all woods of Bull Run near just shedding spores. also abundant on west slope below High Point.

4996 *Dryopteris goldiana* (Hook.) Gray ditto
 (14) In swampy ravine west slope below High Point. Very beautiful.

4997 Lichen
 (1) On twig, on trail to Mill Mt., Va. beyond Coffelt's. In Alleghenies near Little Stony Creek west of Columbia Turnpike, Shenandoah Co May 30, 1938 H.A. Allard
 (Date out of consecutive order)

On soil in old browned edge fields in bare spaces between clumps. Bull Run Mt. Va. South of Hagerwell Gap. In old browned edge field just west of Hagerwell to Broad Run highway June 12, 1938 H.A. Allard. ^{(Del.) Hain}
 4998 (1) *Cladonia cristatella* f. *beauvoisii* (Del.) Hain
 apothecia red. *vestita* Tuck. (apothecia discolored)
~~*Cladonia*~~

4999 On soil near # 4998 ditto
 (1) *C. grayi* Mer. [P]

5000 On soil near # 4998 ditto
 several *Cladonia piedmontensis* f. *lepidifera* (Wain) Robbins plus f. *grammola* Robbins, but rather doubtful

5001 *Cladonia piedmontensis* Mer., but doubtful ditto
 several On soil in old browned edge field with # 4998 apothecia red

5002 *Cladonia cristatella* f. *beauvoisii* (Del.) Hain ditto
 several On soil near # 4998 plus f. *vestita* Tuck. (apothecia discolored)
 apothecia red

5003 *Cladonia cristatella* f. *beauvoisii* (Del.) Hain ditto
 several On soil with # 4998 mostly, but apothecia discolored.
 5003c = apothecia red same as 5003a.
 5003d = *C. subcariosa* f. *evoluta* Wain.
~~*C. verticillata* (Hoffm.) Schaer.~~

5004 *Cladonia cristatella* f. *beauvoisii* (Del.) Hain ditto
 several On soil with # 4998 (apothecia discolored)
 5004a. *C. cristatella* f. *vestita* Tuck. (1)
 5004b. apothecia red
 5004c = *C. verticillata* f. *evoluta* (Th. Fr.) Stein + *C. cristatella* Tuck.

Cladonia
On soil in old
wornedge field.
5005
several apothecia brown.
C. pyxidata var. neglecta f. simplex (Ach.) Harm.
Bull Run Mt., Va
South of Haperell Gap
West of Haperell to
Broad Run Sta. highway
June 12, 1938
H.G. Allard

5006 *Cladonia subcariosa* f. *evoluta* (Horn) Wain. ditto
with # 5005 (young podetia) on soil.
several? apothecia brown

5007 *Cladonia subcariosa* f. *evoluta* (Horn) Wain. ditto
several? On soil near # 5005 mostly
5007b = C. *medmontensis* f. *lepidifera* (Horn) Wain. ditto
5007a = same as 5007. apothecia brown mostly

5008 *Cladonia verticillata* (Hoffm.) Schaer. ditto
several On soil near # 5005 not very definite as to form.
5008a = C. *verticillata* f. *evoluta* (Th. Fr.) Stein. (apothecia discolored)
5008b = C. *subcariosa* f. *evoluta* (Th. Fr.) Stein.

5009 *Cladonia verticillata* f. *evoluta* (Th. Fr.) Stein. ditto
several On soil with # 5005

5010 *Oenothera fruticosa* var. *vera* Hook. ditto
(5) (sundrops.)
On Triassic by roadside near Antioch, e
on road way from # 55 to Antioch.
abundant; full bloom

5011 *Surtellaria integrifolia* var. *typica* Epl. ditto
(1) By roadside near # 5010
scattered; full bloom; showing, here, e

Rumex obtusifolius L. Bull Run Mt., Va
June 12, 1938
H.G. Allard
5012 In waste ground by roadside south of Haperell Gap near south of Haperell Gap.
" old mansion in woods on west slope below High Point.
a very abundant species. e

5013 *Surtellaria ovalifolia* var. *multis* Epl. ditto
" In woods just south of high
wornedge field, on west slope
near High Point. e

5014 *Sphenopholis obtusata* (Michx.) Scribn. ditto
" In woods near # 5013
" scattered through deciduous woods on
the slopes, but weak in making bunches
never abundant; full bloom; delicate. e

5015 *Carex hirsutella* Mack. ditto
12/ From high wornedge field beyond old Riley cabin south of Haperell Gap.
abundant here but in few stemmed clumps.
all from clumps. (Ident. by F. J. Hermann) e

5016 *Carex vulpinoidea* Michx. ditto
" From small or bog beside brook
near big Black Walnut tree, on just
east of old cabin near big White Oak
rose. (Ident. by F. J. Hermann) e

5017 *Cladonia* ditto
" and *Leucobryum albidum* (Moss) Short Mt., Va
on shales with *Cetraria islandica* Shenandoah Co.
on S.W. slope of Short Mt., Va June 14, 1938
H.G. Allard

5018 *Cladonia* ditto
" apothecia brown
Growing with # 5017.
Some *Leucobryum albidum* with *Cladonia*

Festuca elatior L.
Gramineae
Roadside south of
Hofenell Gap $\frac{3}{4}$ mile
near old mansion in
woods on west slope
below High Point; abundant here.

Bull Run Mt., Va

Fauquier Co.,

June 12, 1938

H.A. Allard

synth. of Hofenell Gap.

and on east slope below

across from High Point.

5020 *Onoclea sensibilis* L.
(2) Low ground thickets near # 5019
Plants very large, most high;
abundant.

ditto

e

5021 *Carex hirsutella* Michx.
(2) In old brown sedge field near # 5019
but west of stream and Hofenell to Broad Run
station highway; abundant in fern stems and
clumps among the *Andropogon*.

ditto

e

5022 *Carex proserpinacifolia* Schreb.
(1) In old yard of old cabin, heavily
shaded by trees. A dense pure stand
a sod base of considerable size; mature
stems green very

ditto

e

5023 *Carex horrida* Michx.
(1) In bog south of Hofenell Gap and
old, large black walnut tree old cabin
just west of Hofenell to Broad Run highway.

ditto

e

5024 *Juncus effusus* var. *solutus* Torr.
(3) Very abundant in large clumps
in same bog with # 5023
(all from same clump)

ditto

e

5025 *Carex vulpinoidea* Michx.
(3) In same bog with # 5023
abundant; forms large, old clumps.
(all from one clump)

ditto

e

Carex vulpinoidea Michx. Bull Run Mt., Va
In bog with # 5023 Fauquier Co.
June 12, 1938
H.A. Allard
(Ident. by F. J. Hermann)

5026 *Carex vulpinoidea* Michx. ditto
(4) In same bog with # 5023
(From one clump)
(Ident. by F. J. Hermann)

5028 *Carex vulpinoidea* Michx. ditto
(5) all from bog with # 5023
(same clump.)
(Ident. by F. J. Hermann)

5029 *Juncus acuminatus* Michx. ditto
(4) Growing with # 5023
(Ident. by F. J. Hermann)

5030 *Salix nigra* Marsh. ditto
(5) In same bog with # 5023;
abundant here.

5031 *Aporosa pubescens* R. Br. ditto
(5) abundant all over high brown sedge
field beyond Rileys old cabin
where they formerly lived.

5032 *Ceanothus americanus* L. ditto
(2) Growing near # 5031; in same
field as an undershrub in this brown sedge
field; abundant; full bloom.

Lysimachia quadrifolia L. Bull Run Mt., Va
In high broomedge Tranquien Co.,
5033 field beyond Riley's June 12, 1938
old cabin home south of H.A. Allard.
(4) of Hopewell Gap: abundant; full bloom.

5034 *Sphenopholis Poa compressa* L.

(1) In woods just beyond spring
at Riley's cabin at Castell's
road slope.
abundant; full bloom.

5035 *Carex swanii* (Tern.) Mark.

(1) Growing near * 5034
ident. by F. J. Hermann

5036 *Carex swanii* (Tern.) Mark

(1) Growing near * 5034
ident. by F. J. Hermann

5037 *Sphenopholis Poa compressa* L.

(1) Growing in same woods with * 5034

5038 *Carex hirsutella* Mark.

(1) Growing near * 5034
ident. by F. J. Hermann

5039 *Scutellaria perfoliata* L. ^{widc}

(3) In clearing in woods by
sandstone heap just south of
Riley's spring near their old cabin,
road slope, just south of Hopewell Gap.

Carex frankii Kunth Bull Run Mt., Va

a huge clump in Tranquien Co.
June 12, 1938
5040 yard of old cabin H.A. Allard.
Riley's lived in

(8) just south of Hopewell Gap.
(much rust on leaves)
ident. by F. J. Hermann

5041 *Geranium carolinianum* L.

(3) Growing with * 5040
abundant; nearly past.
var. confertiflorum Tern.

5042 *Dianthus spicata* (L.) Beauv.

(1) Near old cabin where
5040 grew; abundant in old
pastures.

5043 *Juncus secundus* Beauv.

(1) In old pasture beyond
Riley's cabin just south of
Hopewell Gap; abundant in
these pastures.
ident. by F. J. Hermann

5044 *Lobelia spicata* Lam.

(3) In old pasture with * 5042.
abundant here and in clearings
and open woods; full bloom.

5045 *Dianthus armeria* L.

(2) In same old pasture with * 5042
Very abundant; full bloom, and in all old
broomedge pastures

5046 *Stironema ciliatum* (L.) Raf.

(5) In pasture (Castell's) where stone
cumber stood, high up on slope in corn and
wheat 3 years ago; full bloom.

Juncus macrocarpus S.F. Gray Bull Run Mt., Va
in old pasture Fauquier Co
5047 (*Castellus*) June 12, 1938
" near stone crusher H.A. Allard
stood: very abundant constituent. This
field cultivated 2-3 years ago to corn and
wheat, then abandoned.

5048 *Bromus commutatus* Schrad. ditto
" Very abundant in field
above with * 5047
a common species here in old pastures.

5049 *Apocynum pubescens* R.Br. ditto
" abundant, just in bloom in
old pasture with * 5047.

5050 *Cyperus atrovirens* var. *georgianus* (Hartw.) Torr. ditto
" In red spot by roadside on Triassic
area near Antioch on road from
Haymarket to Antioch; abundant.
(Ident. by H. J. Hermann)

5051 *Achillea purpurascens* L. ditto
" Growing with * 5050
in woods on roadside near Antioch.
Full bloom: occasional here

5052 Lichen (black in color) ditto
" on low shale outcrops
all up slope: abundant
here; holds tenaciously to rocks.

5053 *Cladonia* (cup formed) ditto
" on soil where *Cetraria islandica*
grows: rather abundant.

Cetraria islandica (L.) Ach. South end of Short Mt., Va
Massanutten Range.
June 14, 1938
5054 On Martinsburg H.A. Allard
shales near road
" here we park car; abundant
(Today Mr. W. W. Diehl and I map
the main colony here).

5055 *Scrophularia leprellii* Pickn. South end of Short Mt., Va
Massanutten Range
June 14, 1938
" on shales (Martinsburg) H.A. Allard
near middle of mt. (went with W. W. Diehl)
slope proper abundant here: passing. Sherando Co

5056 *Pentstemon canescens* Small. ditto
" Half way up main slope
near * 5055: abundant; full e
bloom: in large clumps.
carolla pale reddish purple.

5057 *Cruciferae* = *Sisymbrium officinalis* L. ditto
" (lfl. small, yellow) = *Barbarea officinalis* (L.) Britton
on shales with * 5056: abundant; e
passing. Leaves very narrow

5058 *Hebe Blepharidocaulon ciliatum* (L.) Raf. ditto
" (7) On shales with * 5056
abundant; in large floriferous clumps;
in full bloom: corolla blue; purple spotted.
a prominent shale plant.

5059 *Draba ramosissima* A. DC. ditto
" Growing abundantly with * 5056
half way up the south slope on Martinsburg
shales; full bloom; dense bunches
a characteristic shale plant.

5060 *Danthonia spicata* (L.) Beauv. e ditto
" on shales all up slope
with * 5056: scattered; vigorous
in spite of dry soils.

Lepidium virginicum L. south end of Short Mt., Va
on dry steep shales Shenandoah Co.
Massanutten range.
5061 slope: abundant: June 14, 1938
15) full bloom. H.A. Allard
an abundant plant on these shales. e

5062 *Marrubium vulgare* L. ditto
14) On shales well up slope with * 5061
very abundant: full bloom: in large clumps:
a characteristic shale plant. e

5063 *Santonia spicata* (L.) Beauv. ditto
2) On shales south slope. e

5064 *Gramineae: Festuca obtusa* Spreng. ditto
2) On shales near * 5061
scattered. e

5065 *Santonia spicata* (L.) Beauv. ditto
11) On shales well up steep slope
with * 5061
abundant in clumps of three large,
vigorous. e

5066 *Bromus pinnatus* L. ditto
17) abundant well up slope on
shales: beginning to chatter: a
tall, handsome, drooping species, and
prominent on lower shales now. e

5067 *Carex cephalophora* Muhl. ditto
3) On steep shales leading to
main slope of Short Mt.: abundant
in the open woods here.
(Ident. by F. J. Hermann)

Carex cephalophora Muhl. south end of Short Mt., Va
well down slope Shenandoah Co.
Massanutten range.
5068 here often June 14, 1938
14) woods: abundant: shattering. e
(Ident. by F. J. Hermann)

5069 *Dianthus armeria* L. ditto
11) On shales near road
where *Cetraria* colony begins
ad here in park: abundant: full bloom

5070 *Carex cephalophora* Muhl. ditto
11) On shales with * 5069 e
(Ident. by F. J. Hermann)

5071 *Anagallis arvensis* L. ditto
11) Primrose
with * 5069
abundant here in newly level
grassy area: full bloom:
fl. scarlet, e

5072 *Antennaria islandica* ~~neo-dioica~~ ditto
2) On shales with *Cetraria islandica*
scattered. = *Antennaria neo-dioica* Greene e

5073 *Antennaria neo-dioica* Greene ditto
11) On shales with *Cetraria islandica*
abundant all over these shales of
south end Short Mt. e

5074 *Carex cephalophora* Muhl. ditto
2) On shales near main slope
in open stand of trees etc.
(Ident. by F. J. Hermann)

Danthonia spicata (L.) Beauv. Smith end of Short Mt., Va
Massanutten range,
Shenandoah Co.
5075 on shall well
of main slope.
(21) abundant: very
vigorous clumps.
June 14, 1938
H.A. Allard

5076 *Monotropa hypopitys lanuginosa* (Muhl.) Nutt. ditto
(1) on shales with *Cetraria islandica* (L.) Nyl.
at foot of Chestnut Oak
not common here.

5077 *Ellecebraceae* ditto
(1) on shales with *Cetraria islandica*
abundant here.
Anychia polygonoides Raf.

5078 *Bupleurum* *undulifolium* (L.) Great Valley of Va.,
Shenandoah Co.
(10) Roadside near
Woodstock: abundant here.
June 14, 1938
H.A. Allard

5079 *Pentstemon* *laevigatus* Soland. Bull Run Mts Va
Fauquier Co.
(12) Fl. white: a large colony
just west of Thoroughfare Gap
on Plains area in full bloom; not common.
June 14, 1938
H.A. Allard

5080 *Tragopogon porrifolius* L. Great Valley of Va
(8) very abundant: going to seed, but still some flowering.
Near Woodstock, Va.
Flowers purple: very abundant by roadside.
June 14, 1938
H.A. Allard

5081 *Tragopogon dubius* (L.) subsp. *major* (Jacq.) Vollinger.
(16) very abundant between
Mt. Jackson and Woodstock: full bloom: fl. yellow.

Aster virgatus (L.) Pursh. Smith end of Short Mt., Va
Massanutten range,
Near A. Loess col. Shenandoah Co.

5082 maybe a narrow leaved form. very June 19, 1938
(1) abundant on shale barrens: this near roadway
where car was parked: only one in flower.
Found abundant here and elsewhere in Massanutten
but mainly on dry shales.

5083 *Draba ramosissima* Deer. ditto
(4) well up slope on shale barrens ditto
abundant: some flowering still,
but mostly in seed: fl. white.
Flowered only on shale areas here.

5084 *Gnaphalium platyneuron* (L.) Oakes. ditto
(1) on ledges at top (Clinton sand
stones and conglomerates) also
below on shales: abundant.

5085 *Potentilla monspeliensis* L. ditto
(1) on shales at foot where
red bud colonies are
only plant seen: fl. yellow.

5086 *Crataegus tomentosa* (L.) Muhl. ditto
Flowers stems, leaves, fruit pubescent.
on shales near foot of slope proper.
scattered

5087 *Ruellia strepera* L. ditto
(3) on route 730 from Valley Forge
near Short Mt. This by roadside at
neck on way to Short Mt.: abundant,
full bloom: flowers large, shiny, blue.

5088 *Carex pennsylvanica* var. *enervis* Boott. ditto
(1) at ledges on Short Mt.: abundant.
near rocky talus begins
(Ident. by T. J. Hermann)

Deschampsia flexuosa (L.) Trin
at foot of cliffs at top: (L.)
5089 abundant here: in full bloom: not on shales. June 19, 1938
191 below. at about 2400 ft. H.A. Allard. e

5090 *Carex mullerbergii* or *energis* Boott. ditto
141 Growing with # 5089
abundant: alt. about 2400 ft e
(ident. by F. J. Hermann)

5091 *Bromus pinnatus* L.
141 well up slope on shales near 1800 ft alt. ditto
abundant. e

5092 Graminae - *Festuca obtusa* Spreng.
101 well up on shales near # 5091: ditto
61 abundant. e

5093 *Blephilia ilicata* (L.) Raf.
11 On shales well up slope ditto
near # 5091; abundant; in full bloom; e
very showy blue purple blossoms in large clumps.
a typical shale plant here.

5094 *Brassica nigra* (L.) Koch. Great Valley of Va
121 On route 730 off the Valley Pike to Short Shenandoah Co
Mt., Va south end. June 19, 1938
Roadside near stream # 9, Allard
in way: abundant; full bloom. e

5095 *Cirsium palustre* *Carduus acanthoides* L.
61 Near roadstock, by roadside. ditto
abundant; just opening its flowers; e
only a few plants with flower heads;
pink purple; my first record.

Cirsium pumilum (Nutt.) Shreve. South end of Short Mt., Va
on route 730 leading Shenandoah Co. Massanutten range,
5096 east from June 19, 1938.
11 Valley Pike H.A. Allard. e
just south of
Mt. Jackson, Big roadside in woods
near short Mt. south end. Just in bloom;
fragrant; fl. purple.

5097 *Aralia hispida* Vent. ditto
141 On top of cliffs of Short Mt.,
abundant here; in full bloom. e
Some plants 54 inches tall.

5098 *Galium latifolium* Michx. ditto e
121 On top of cliffs at 2600 ft
Leaves dotted, but stems smooth, whereas
G. pilosum has dotted leaves, hairy stems.
abundant; just in bloom; fl. purple.

5099 *Deschampsia flexuosa* (L.) Trin ditto
121 On top of cliffs near # 5098:
full flower: spikelets pinkish tan,
the usual color of this very beautiful, e
tenuose, delicate species
at 2600 ft.

5100 *Panicum boscii* var. *molle* (Vasey) H. & C. ditto
141 var. *molle*? at foot of cliffs at
stems hairy. 2400 ft with # 5089 e
abundant here.

5101 *Pentstemon canescens* Small e ditto
11 at top of cliffs near # 5097
full flower; abundant also
on shales below.

5102 *Cercis canadensis* L. e ditto
131 On shales on lower slope.
Abundant here on shales; some with
distinct red pods; others with green; and
not a matter of age.

*Crataegus tomentosa*² Smith end of Short Mt., Va
on shales near Massanutten Range
5103 foot of main slope, Shenandoah Co.,
(21) scattered here. June 19, 1938
H.A. Allard

5104 *Galium pilosum*
(21) var. *punctilobum* *circaezans* Michx. ditto
punctilobum
fl. white, stems glabrous, edge of leaves ciliate,
fruit uncinately hispid; leaves not dotted,
hairs as in *pilosum*.
5105 On top of diff. at 2500 ft. full bloom.

(81) *Sisyrinchium lineatum* Michx.
On county road #730, low, wet Great Valley of Va
roadside shot in woods approaching Shenandoah Co.
Smith end of Short Mt., June 19, 1938
abundant here. H.A. Allard

5106 *Scrophularia leforella* Bicknell
(11) Top of Short mountain - Smith end
on high crest of ledges at 2600 ft.
full bloom here: on shales at foot
of slope past bloom

5107 *Asclepias purpurascens* L.
(11) Growing by roadside in woods
near # 5105 in drier soil: full bloom. ditto

5108 *Asclepias tuberosa* L.
(21) By roadside on # 730 leading off ditto
from the Valley Pike on the way to
Smith end of Short Mt., Va: abundant;
5109 full bloom now.

Allium ampeloprasum L.² Park town
First found by Dr. S. F. Blake
There then collected by Howard T. Allard
June 19, 1938 who visited this area: abundant
here; full bloom a week earlier; very fragrant;
purple heads of flowers; numerous basal bulbils.

Phlox pratensis L. Bull Run Mt., Va
at Riley's spring Franquier Co.
at their old at Hartsell Gap.
5110 cabin house. June 26, 1938
(21) Full bloom abundant. H.A. Allard

5111 *Chrysanthemum* *leucanthemum* L. ditto
(14) var. *pinnatifidum* var. *pinnatifidum*
very abundant in Castello's field
where stone crusher stood. full bloom

5112 *Rudbeckia hirta* L. ditto
(13) Growing in same field with
5111: full bloom; very abundant
yellowing this field in places.

5113 *Juncus*
(11) On thin soil at top of
ridge at Castello's quarry ditto
above his spring.

5114 *Dryopteris polypodioides* L. ditto
(21) In woods beyond high
Purdon sedge field od oak tree
Quercus saubii
- *Dryopteris hexagonoptera* (Michx.) C. Chr.

5115 *Poa compressa* L.
(11) In high brown sedge field on ditto
slope beyond Riley's former cabin
house (S.W.) abundant in thin
scattered stands.

5116 *Hyssopus* L. ditto
(11) Covera rocks od boulders in
little cold pools leading from spring
in woods below High Point (see photo)
Temperature of water = 56° F.

Polystichum acrostichoides Bull. Run Mt., Va.
var. *schweinitzii* (Michx.) Tangner Co.
5117 In woods below High Point, west slope
at cold spring with # 5116 south of Hopewell Gap
west slope. e

5118 *Polystichum acrostichoides* (Michx.) Schaff. ditto
(2) Growing near # 5117 very abundant. e

5119 Mass on big boulders covering them with a solid mat in
brook from spring base # 5116 near. ditto
abundant: dull olive green. e

5120 *Nepeta cataracta* L. ditto
(4) at foot of Castello's flagstone quarry west of his house on ridge:
full bloom: very abundant here. e

5121 *Apoecynum cannabinum* L. ditto
(4) Growing on top of quarry where # 5120 grows: abundant here:
full bloom: (leaves mucronate-tipped) e

5122 *Apoecynum androsaemifolium* L. ditto
(11) *Mothotropa uniflora* L.
Rich woods just below High Point,
west slope: full bloom. e

5123 Mass on stones covering these with
(2) a bright, sunilluminant satiny greenness
of pure moss. ditto

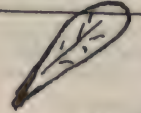
Mass on rocks covering these, near spring Bull Run Mt., Va.
Tangner Co.
5124 near # 5119 June 26, 1938
H.A. Allard. e

Chimaphila maculata (L.) Pursh. ditto
5125 Found near # 5124.
(2) abundant: full bloom: more
abundant than *umbellata*. e

5126 *Quercus saeuii* Schneider. ditto e
(5) In s.w. corner of high brown edge field beyond Castello's
a young, fine tree. white caps of chestnut
rubs and red around. = *alba* x *montana* (brunus)

5127 *Apocynum peltoides* (L.) Ehrh. on sand dunes
(2) *Humboldtia* on dunes: abundant: at Provincetown,
no flowers, there Cape Cod, Mass.
being rarely produced. July 1, 1938
(E. n. p. p. introduced) H.A. Allard

5128 *Lathyrus maritimus* (L.) Bigel. ditto e
(5) on sand dunes: full bloom: ditto
abundant: fl. purple.

5129  ditto e
(1) on dunes near # 5128.
not in flower: abundant.
= *Antrostaphylos uva-ursi* Spreng.

5130 *Linaria canadensis* (L.) Dummer ditto
(1) abundant on sand dunes
etc: full bloom.
(fl. purple)

Rufus hispidus A.
On sand dunes;
5131 abundant; full
(2) bloom.
On sand dunes at Provincetown, Cape Cod, Mass.
July 1, 1938.

5132 *Calopogon pulchellus* ditto
(1) Low, dwarf spat on
Cape Cod sands at Provincetown;
abundant; full bloom.
- *Limnolobos tuberosus* L.

5133 *Aralia hispida* Vent.
(2) abundant on dunes at
Provincetown; also everywhere by
roadsides in Maine, Quebec etc.; full
bloom. See # 5097 ditto

5134 *Artemisia stelleriana* Bess.
(1) abundant on dunes etc.; passing.
escape from gardens (Asia) ditto

5135 Gramineae
(2) In bog; abundant. On shore of
Malden Pond, Concord, Mass.
July 1, 1938
Cladonia canadensis (Michx.) Trin. H.A. Allard. e

5136 *Carex lasiocarpa* Wahl.
(2) Growing with # 5135 ditto e
Ident. by T. J. Hermann, Assoc. Botanist, Dir.
of Plant Exploration and Introduction July 30, 1938.

5137 *Hieracium aurantiacum* L. Mt. Desert Isle, Maine
(4) In fields, roadsides July 3, 1938
etc. often in flower; deep orange H.A. Allard. e
(orange fl.) Very showy.
everywhere in north, Canada, Yukon, Alaska, full
bloom.

Hieracium patense Tausch, Desert Isle, Maine.
abundant and intermingling July 3, 1938.
with # 5137; somewhat
taller; less stoloniferous. Roadside.
5138 fl.; deep yellow. H.A. Allard

(4) Less wide spread than # 5137; but
abundant in southern Maine; full
bloom. e

5139 Mt. Desert Isle; old field; full bloom. ditto
(1) abundant.
3 *Pinnanthus crista-galli* L. e

5140 Gramineae Matlamamkeag,
Penobscot Co., Maine.
(3) abundant in Central H.A. Allard
Maine in places by July 3, 1938. e
roadside; spikes purple; showy.
Calamagrostis canadensis (Michx.) Beauv.

5141 *Juncea trifida* L. Mt. Katahdin,
(2) Maine
Near top; above timber line; abundant on knife edge. July 4, 1938
(Ident. by Hermann) H.A. Allard. e

5142 *Diapensia lapponica* L. Near top ditto
(1) Near top - above timber
line; abundant; dense clusters. e
clustered; fl. single; 3 parted below calyx.

5143 *Vaccinium vitis-idea* L. ditto
(1) var. minus Lodd. idea
abundant; full bloom above timber line.
corolla deep pink. e

5144 *Ledum gwendlandicum* Ledeb. ditto
(2) fl. white; a very showy
shrub above timber line; full
bloom; enduring. e

Vaccinium uliginosum L. Top of Mt. Katahdin,
Maine, above
timber line.
5145 In flower; abundant
low shrub here

5146 Gramineae. ditto
" silvery brown plants and large.
above timber line; abundant
Hierobloa alpina (Swartz) Roem. & Schult.

5147 *Carex concolor* R. Br. ditto
" High up 1st peak of Katahdin
on trail from Baxter Camp; abundant
above timber line. (Ident. by Hermann)

5148 *Carex humilis* (Pers.) Poir. ditto
" Growing above timber line.
(Ident. by Hermann)

5149 *Arenaria groenlandica* (Petry) Steud. ditto
" above timber land on bleak
slopes; abundant; full bloom
fl: white

5150 *Linnaea borealis* americana Forbes. ditto
" High up Katahdin on
plateau; full bloom. grass
around Camp Baxter also red
on low slopes around.

5151 *Linnaea borealis* very strong, delicate, pinkish
very fragrant flowers.
ditto
" on plateau high up trail above
timber line; abundant below
High up Katahdin above timber line,
(Ident. by Hermann)

Cladonia squamosa (Scop.) Hoffm. on Mt. Katahdin,
Maine.
July 5, 1938
H.A. Allard.
5152 On rocks in
ravine at falls
above Camp Baxter
on Baxter camp trail.

5153 Lichens ditto
" on rocks near # 5152

5154 Lichens - *Cladonia squamosa* (Scop.) Hoffm. ditto
" Near # 5152 on stumps,
logs etc. 5154b = *C. cristatella* f. *vestita* Tuck.
5154A = *C. squamosa* (Scop.) Hoffm. 5154C = *C. squamosa* (Scop.) Hoffm.

5155 *Cladonia* mixed
" one = *C. rangiferina* ditto
" one a brown, long, pointed type
Near # 5154 = *C. gracilis* var. *elongata*
f. *squamosa*
5155A = *C. rangiferina* (L.) Web.

5156 *Cladonia* *C. gracilis* var. *elongata* ditto
" as # 5155 f. *squamosa*

5156A In same locality
C. rangiferina (L.) Web.

5157 Lichens - *Cladonia squamosa* (Scop.) Hoffm. ditto
" Near # 5152;
on soil on banks.

5158 *Cladonia alpestris* (L.) Rabenh. ditto
" On soil on rocks near
falls above Camp Baxter.
abundant; forms a knobby covering
very pretty; gray.

Cladonia *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5159e = 5159b. *C. squamulosa* (Schaer.) Sacc. on Camp Baxter Trail
July 5, 1938
5159 in rotten logs at bridge at falls 5159c
fore Camp Baxter 5159d = 5159b, and *C. coniocraea* f. *ceratodes*
" 5159a same as 5159
5159b = *C. gracilis* var. *dilitata* (Hoffm.) Vain.
(and *C. coniocraea* f. *ceratodes* (Hoffm.) Vain.)

5160 *Lyopodium clavatum* L. ditto

" Growing near # 5159
5159h = *C. squamulosa* (Schaer.) Hoffm. and *C. coniocraea* f. *ceratodes*
and *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5159j = 5159k = *C. coniocraea* f. *ceratodes* (Hoffm.) Vain.
5159l = *Jamesoniella autumnalis* (Dill.) Stehr
5161 *Lyopodium annotinum* L. ditto

" Near # 5159

5162 *Linnaea borealis* americana Forbes.

" (2) tiny flower. full bloom: very fragrant; ditto
pink.

Three found at Mud Pond below camp Baxter.
Very abundant at all elevations: to near top
of Katahdin.

5163

" *Cerastium*? *abundant* *graminea* (L.) Britton ditto

Growing on shore of Mud Pond below
Camp Baxter: full bloom. e

5164

" *Arnica mollis* var. *petiolaris* Ternald ditto
(2) yellow flowered Composite
(Arnica)

In damp boggy ground in thicket at
Mud Pond: full bloom

5165

" *Oxalis acetosella* L. ditto

" At Camp Baxter at foot of
Mt. Katahdin: abundant: full bloom: c
fl. white.

5166a = *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5166d = undeterminable,

5166e = " "

5167 = *Ptilidium ciliare* (L.) Nees. L.)

5167a = " "

5167b = sterile - doubtful. Some sent to Berry, C.C. 2

5167c, *Cladonia rangiferina* (L.) Web.

5167d. " "

5167e " "

5168 *Ptilidium ciliare* (L.) Nees.

5168a *Bazzania ciliata* (L.) Nees.

5168b " "

5168c " "

5168d " "

5168e *Cladonia rangiferina* (L.) Web.

5168f. " "

5168g " "

5168h " "

5168i " "

5168j *Ptilidium ciliare* (L.) Nees.

5168k *Bazzania trilobata* (L.) S. F. Gray
+ *Oethocaulis attenuatus* (L.) Auth.?

5168l *Bazzania trilobata* (L.) S. F. Gray.
+ *Ptilidium ciliare* (L.) Nees.

5168N and 5168O = same as 5168L.

Clad - C. gracilis var. dilatata M. Katahdin Maine

51592 =

51

(and

51

11

51

5159

51

1

51

2

51

11

51

2

516

11

117

59 f. = C. rangiferina (L.) Web. Mt. Katahdin, Maine,
Cladonia July 5, 1938,
H.G. Allard

5166 ~~mass~~ on rocks at very top near
111 mossy plaque. Sphaerophorus fragilis (L.) Pers. 2

66a = ~~Termonema~~ setiforme (Ehrh.) M.A. Howe
Mistline or Bliphanstoma setiformis (Ehrh.)
= Synon. ditto 2

5167 Cladonia
he) 11 Cetraria islandica
Van. Moss
all from rocks at top near * 5166
at 5266 ft

5168 Mistline
111 Mosses
Lichens From cliffs at ditto
Hepaticae falls above Camp
Booster.

5169 Hepaticae = Diplophyllum tapifolium (Vahlent.)
111 Mosses From cliffs near * 5168
5169a = Bogzania trilobata (L.) S.F. Gray.

5170 Mosses Diplophyllum tapifolium (Vahlent.)
111 Lichens 5170c = Cladonia rangiferina (L.) Web.
Hepaticae 5170d = Sphaerolobus minutus (Grout) S.F. Gray.
with * 5168 + Bogzania trilobata (L.) S.F. Gray.

5171 Mosses etc.
111 Growing near * 5168 ditto

5172 Mosses Bogzania trilobata (L.) S.F. Gray ditto
111 Hepaticae
Growing with * 5168.

Phlegopteris polypodioides on Camp Baxter trail,
Mt. Katahdin, Maine
July 5, 1938
H.A. Allard.

5173 at falls above
Camp Baxter.

" = Dryopteris phlegopteris (L.) C. Chr.

5174 Bryum?

" Growing with # 5173

5175 Bazzania trilobata (L.) S.F. Gray.

" Growing at falls above
Camp Baxter

Mosses
Hepaticae

5176

(5) Senecio robbinsii Oakes.

In damp boggy soil in Thicket
at Mud Pond, below Camp Baxter.
Occasional: full bloom.

5177

" Carex peckii E.C. Howe.

" Growing with # 5176
(Ident. by Hermann.)

5178

" Silene latifolia (Mill.) Benth.
at Camp Baxter. Beautifully veined calyx.
S. cucubalus Wibel.

5179

" Carex hummescens (Pers.) Poir.

" On cliff shelf at falls
above Camp Baxter.
(Ident. by Hermann.)

Gramineae.

Mt. Katahdin, Maine,
July 5, 1938
H.A. Allard

5180

at Camp Baxter

"

in woods.

Danthonia spicata (L.) Beauv.

5181

Carex crumfordii Fern

"

Growing at Mud Pond below
Camp Baxter
(Ident. by Hermann.)

5182

Carex crumfordii Fern.

"

Growing near # 5181
(Ident. by Hermann.)

5183

Carex scabrata Schreb.

"

with # 5181
(Ident. by Hermann.)

5184

Carex crumfordii Fern.

"

at Mud Pond below
Camp Baxter
(Ident. by Hermann.)

5185

~~Cyperus~~ ^{Saxifraga} atrocinctus Fern.

"

Near # 5184
(Ident. by Hermann.)

5186

Carex scabrata Schreb.

"

Near # 5184.
(Ident. by Hermann.)

carex gynandra Schrein Mt. Katahdin, Maine,
 at Mud Pond July 5, 1938
 5187 below Camp Baxter. H.A. Allard.
 (Ident. by Hermann)

5188 Carex projecta Mack.
 with # 5187 ditto
 (Ident. by Hermann)

5189 Cyperus ~~strepitans~~ ^{strepitans} atrovinctus Fern.
 Growing with # 5187 ditto
 (Ident. by Hermann)

5190 Chrysothrix hirsutius (L.) T. P. S.
 At Mud Pond - ditto
 on soil in woods -
 prostrate - small leaves
 alternate Not size

5191 Thick, grayish green abundant.
 Mares
 Hepatic
 Lichens
 at cliffs at falls above Camp Baxter. ditto

5192 Solidago ~~cutleri~~ ^{cutleri} ~~perniald~~
 at highest point on Mt. Katahdin.
 Maine at 5200 ft. ditto
 just coming into flower
 above timber line.

5193 Arenaria greenlandica (Rat.) Spreng.
 Everywhere above timber line at ditto
 top of mt: full bloom: dense clusters.
 fl. whitish: completely covers the ground
 with flowers in places: leaves linear

5191 = Bazzania trilobata (L.) S. F. Gray.
 5191a = Ptilidium ciliare (L.) Nees.
 5191b = " " "
 5191c = Cladonia sylvatica (L.) Hoffm. (slender form)
 5191d = " " " "
 5202 = " gracilis var. elongata (Jacq.) E. Fries.
 5202b = Ptilidium ciliare (L.) Nees.
 5203b = Cladonia amaro-craea f. oxyclada Vain.
 and f. furcatiformis Vain.
 5204 = " gracilis var. elongata (Jacq.) Fries.
 5204a = Temnoma setiforme (Ehrh.) M. A. Howe (mostly)
 5204b = " plus Cladonia squamosa (Scop.) Hoffm.
 5204c = (Too little to test.)
 5204d = Ptilidium ciliare (L.) Nees.
 5210a = Cladonia amaro-craea (Flörke) Schaer
 5210b = Temnoma setiforme (Ehrh.) M. A. Howe.
 5210d = Cladonia uncialis (L.) Web.
 5210e = " squamosa (Scop.) Hoffm.
 5211a = " rangiferina (L.) Web.
 5211b = " amaro-craea (Flörke) Schaer.
 5211c = { " alpestris (L.) Rabenh. (right)
 " rangiferina (L.) Web. (left).
 5211d = " alpestris (L.) Rabenh.

Carex

5187

//

5188

//

5189

//

5190

//

5191

//

5192

//

5193

//

Top
fl. wh.
with pler

Vaccinium

uliginosum L.

5194

//

Top of Mt. Katahdin,
Maine, at 5266 ft
July 6, 1938
H.G. Allard.

5195

//

Salix phylicifolia Pursh
at top among rocks
above timber line
low.

ditto

5196

//

Near # 5195

Ericaceae
shrub. Vitis idaea var. opifera L.

ditto

5197

//

Ericaceae

Near # 5195

= Vaccinium uliginosum L.

ditto

5198

//

Lycopodium selago L.

Near # 5195

ditto

5199

//

Carex concinna R. Br.

with # 5195

(ident. by Hermann)

ditto

5200

//

Cetraria islandica

with 5195 - abundant.

5200a = Cladonia rangiferina (L.) Reb.

ditto

Cladonia²

Top of Mt. Katahdin, Maine

July 6, 1938

H.A. Allard

at 5266 ft

5201

on rocks etc

at extreme top

(1)

above timber line.

= Cladonia amaro-craca (Floerke) Schaer
f. oxyclada Vain.

5202

Cladonia

(1)

Moss

with # 5201

ditto

5203

Lichens.

(1)

One yellowish green - foliose -
very pretty

Near # 5201

ditto

5204

Mosses

(1)

Lichens

Near # 5201

ditto

5205

Cetraria islandica

(1)

Near # 5201

ditto

5205a = Cladonia amaro-craca (Floerke) Schaer.
abundant

5206

Cladonia rangiferina (L.) Web.

(1)

Near # 5201

ditto

5207

Cetraria islandica (L.) Ach.

(1)

Near # 5201

5207a = Cladonia rangiferina (L.) Web.
5207b = " amaro-craca (Floerke) Schaer.

ditto

Cladonia rangiferina (L.) Web.

Top of Mt. Katahdin, Maine
July 6, 1938

H.A. Allard

5208

(1)

on soil at
very top above timber line.
abundant everywhere. e

5209

Cladonia rangiferina (L.) Web.

(1)

mostly

5209b = Cladonia amaro-craca (Floerke) Schaer.
5209c = Ptilidium ciliare (L.) Nees.

ditto

5210

Moss

(1)

Lichen like # 5203

5211

Mostly Cetraria islandica (L.) Ach.

(1)

some Cladonia rangiferina

"

"

alpestris. e

(intermingled)

5212

Gramineae

(1)

Poa lapa Haeske

in rock crevices. e

5213

Vaccinium vitis-idea

(1)

var. minus Lodd.

(Mt. Cranberry); fl. deep pink.
in full bloom at top.
Low shrub. e

5214

Carex brunneocens (Pers.) Poir.

(1)

near 5213. (ident. by Hermann)

5215 on top of
Cairn and
bronz plaque etc. Ident by Hermann.
e

5216 sphagnum
" at ^{and} Governor's Spring on
plateau just below top in
boggy ground.

5217 Carex crainfordii TERNALDI M. Katakhdin, Maine
 1/1 also juncus macer at Camp Baxter at foot.
 S. F. Gray July 8, 1938 e
 at Camp site (identically Hermann) H. A. Allard) e

5218 Carex intumescens Rudge, ditto
" vs. Arnaldii Bailey
at camp site (ident. by Hermann) / 2

5219 *Poa polystris* L
Graminac ditto
1/1 at camp site e 1

5220 *Gramineae Agrostis tenuis* Sibth. ditto
at Camp site
five purple panicles, soft, lax, showy.

5221 *Galium tectorum* L. Moosehead Lake, Maine
 21 bl white.
 July 8, 1938
 1 By roadside
 near Greenville, Maine. H. A. Allard e

5222 on grassy bank of dam
earth bank.
11 very beautiful, deep blue, showy;
fully bloomed
var. *intercedens* (Wittasek) Farw e

5223 Matricaria ~~suaresolens~~
matricarioides (Less.) Porter. ditto
11/ Near X 5222.
(rayless)
Lost or left my fine digging tool
here.

5224 *Aster macrophyllus* L Mt. Washington
Pinkham Notch,
July 11, 1938
at Dolly Co. Campsite H.A. Allard.
(abundant; just coming into bloom) c)
rays blue.

5225 *Juncea gueneri* Oakes et Turbom ditto
 (11) at camp site 1 edent. by Hermann

5226 *Hieracium aurantiacum* July 16, 1938
" at Norton Lake, N.H.

5227 *My roadside.*
Very abundant and in all fields; full
brown *he) schaefer.*

111 *Cladocia pleurota* (Vilvoert) Mt. Washington N.H.
In Truckerman's Ravine. July 13.
(on soil) 1 H.A. 11/9

5228 Cladonia squamosa (Sw.) Haffn. ditto
11/18 ra =
5228 with * 5227 " " "

Hierochloa odorata (L.) Benth. M.T. Washington, N.H.
Tuckerman's Ravine,
Pinkham Notch trail
July 13, 1938.
H.G. Allard.
5229 In Tuckerman's
Ravine
on slopes. e
" A very beautiful grass. e

5230 *Juncus trifidus* L. ditto
" Near # 5229 e
(Ident. by Hermann) e

5231 *Deschampsia flexuosa* (L.) Trin. ditto
" Gramineae. e
with # 5229
very pretty delicate panicles. e

5232 *Carex brunneus* (Pers.) Poir. (shade form) ditto
" Near # 5229 e
(Ident. by Mr. Hermann) e

5233 *Arenaria groenlandica* (Retz.) Shreb. ditto
" In Ravine on slopes e
very abundant: full bloom; showy. e

5234 *Carex concolor* R. Br. ditto
" In ravine. (Ident. by Hermann) e

5235 *Exemum peckii* Pursh. ditto
" *Potentilla* e
Very showy: full bloom
on ledges: abundant.
appearance of a buttercup. e

Dracopis mollis Hook. M.T. Washington, N.H.
Tuckerman's Ravine.
on ledges etc. July 13, 1938
H.G. Allard.
5236 full bloom. ditto
" showy. Not e
abundant: in clumps. e
14)

5237 *Carex brunneus* (Pers.) Poir. ditto
" In ravine Ident. by Hermann. e

5238 Gramineae ditto
" In ravine e
Poa pratensis L. e

5239 *Phleum alpinum* L. ditto
" In ravine. e
full bloom. e

5240 *Carex brunneus* (Pers.) Poir. ditto
" In ravine (Ident. by Hermann) e

5241 *Luzula parviflora* (Ehrh.) Desv. ditto
" *Cyperus* var. *melanocarpa* (Michx.) Benth. e
above Tuckerman's Ravine. e
(Ident. by Hermann) e

5242 *Carex leptomeris* Fern. ditto
" Above Tuckerman's Ravine.
(Ident. by Hermann) e

Carex canescens L.
var. *disjuncta* Fern.
5243 Above Tuckerman's Ravine. July 13, 1938
(Ident. by Hermann)
Mt. Washington, N.H.
Tuckerman's Ravine
trail. H.A. Allard

5244 *Arenaria groenlandica* (Retz.) S. Wats. ditto
(1) In Tuckerman's Ravine. H.A. Allard

5245 *Juncus trifidus* L. ditto
(1) In Tuckerman's Ravine
(Ident. by Hermann)

5246 Gramineae ditto
(1) In Tuckerman's Ravine
Deschampsia flexuosa (L.) Trin.

5247 *Scirpus elochensis* ditto
(1) In Tuckerman's Ravine
Scirpus caespitosus L. var. *callosus* Bigel.
(Ident. by Hermann)

5248 *Carex humilis* (Pers.) Poir. ditto
(1) In Tuckerman's Ravine

5249 *Rhizanthus oblongifolius* ditto
(1) *Castilleja septentrionalis* Lindl. e
yellowish green flowers;
narrow leaves; not showy.

Epilobium alpinum L. Mt. Washington, N.H.
5250 On Tuckerman's Ravine trail
July 13, 1938
H.A. Allard

(2) small lilac flowers;
long slender pods; entire
leaves opposite, nearly entire
fl. small

5251 *Rubus triflorus* Richards. ditto
(1) Trailing: In Tuckerman's ravine.

5252 *Veronica alpina* L. ditto
(1) var. *malaschensis* C.P.S.
= *V. romscholdii* R.P.S.

5253 Orchidaceae ditto
(2) High up side of Tuckerman's
Ravine: fl. white: full bloom
Habenaria dilatata (Pursh) Gray

5254 Gramineae ditto
(1) At top among rocks near
Summit House
Poa glauca Vahl.

5255 Lichen ditto
(1) near # 5254
on rocks.

5256 *Carex canescens* L. var. *disjuncta* Fern. ditto
(1) Shore of Hermit Lake
about 3800 ft. (Ident. by Hermann)

Gramineae.

Mt. Washington, N.H.

Truckerman's Ravine.

July 13, 1938.

H.A. Allard

5257

Truckerman's
In ravine

Calamagrostis canadensis (Michx.) Beauv.

5258

Carex lunifolia (Pers.) Poir. ditto

In Truckerman's Ravine

5259

Carex paupercula Michx.

very abundant on shore of
Hermit Lake at 3800 ft +.

(Ident. by Hermann)

5260

Gramineae - Calamagrostis canadensis (Michx.) Beauv.

with # 5259

5261

Carex paupercula Michx.

At Hermit Lake in wet bog.
very beautiful with bright green perigynia
and brown scales contrasting.
spikes drooping (Ident. by Hermann)

5262

Juncus filiformis L.

at Hermit Lake.

(Ident. by Hermann)

5263

Cyperus atrovirens Fern.

on shore of Hermit Lake.

(Ident. by Hermann)

Eleocharis

Mt. Washington, N.H.

Truckerman's Ravine.

July 13, 1938

H.A. Allard

5264

Dense tufts
stems very

scirpus caespitosus L. var. callosus Bigl.

(Ident. by Dr. Hermann)

5265

Houstonia caerulea stems
var. ~~toponorum~~ ditto

In Truckerman's ravine.
very abundant; full bloom.
almost pure white in dense
clusters

5266

Cladonia

Cannon Ball Mt.

On top at 4100 ft. near top of aerial
train at east of 95 cents, high over
forests of fir mostly; very dwarfed at
top

5267

5266a = Cladonia squamosa (Tuckerm.) Schaer.

Polygonum persicaria

around quarry dam, soil above
Castello's house at Haverell Gap.
Common - full bloom.

5268

Oxalis europaea forma cymosa (Small.) Heg.

Near # 5267
abundant; full bloom

5269

Galium triflorum Michx.

Thicket at Castello's quarry above.
abundant; full bloom.

5270

Chiraphodium vulgare L.

abundant; full bloom
with # 5269; fl. rose pink.
Common in thickets.

Pyrenanthus incanus Bull Run Mt., Va
 in thickets at Castello's
 quarry above his house:
 5271 abundant: full bloom
 (1) *Roellia pyrenanthoides* (Lamour.) Knutze
 H.A. Allard
 Fannin Co

5272 *Solanum carolinense* L. ditto
 (1) at above quarry: abundant: full bloom

5273 *Angelia canadensis* (L.) B.S.P. ditto
 (1) same locality with # 5271
 abundant: full bloom

5274 *Galium circaezans* Michx. ditto
 (1) same locality with # 5271
 abundant in woods: passing

5275 *Acalypha virginica* (L.) Gray. ditto
 (1) at above quarry: a common weed;
 often red throughout in autumn

5276 *Geranium canadense* Jacq. ditto
 (1) at above quarry: abundant

5277 *Oxalis europaea* forma *aperta* (L.) Small. ditto
 (1) at above quarry:
 abundant: full bloom

Angelia canadensis (L.) B.S.P. Bull Run Mt., Va
 at Castello's quarry above his house:
 5278 abundant in woods etc. Fannin Co
 (1) H.A. Allard
 July 24, 1938

5279 *Sanicula canadensis* L. ditto
 (1) Near # 5278.
 abundant in woods etc.

5280 *Polygonum hydropiper* (L.) Pers. ditto
 (1) Same spot near # 5278.
 abundant: full bloom
 leaf; drooping racemes, whitish: achenes dull.

5281 *Setaria lutescens* (Weig.) Hubb. ditto
 (1) at above quarry: on
 abundant grass now.

5282 ditto
 (1) Large serrate, ovate leaves.
 Inflorescence umbellate.
 In thickets at above quarry.
Aralia racemosa L.

5283 *Bidens bipinnata* L. ditto
 (1) at above quarry: abundant:
 full bloom on ledges in open etc.

5284 *Meibomia nudiflora* DC. ditto
 (2) *Desmodium* woods: near slope below High Point.
 Very abundant in woods: full bloom: a
 conspicuous feature of understory with Hog Peanut.

Sericocarpus asteroides (L.) Bull. Run Mt., Va.
woods next slopes below ^{B.S.P.} Haperell Gap -
High Point. July 24, 1938

5285 abundant: full bloom H.G. Allard
(1) Fanguier Co. e

5286 *Monotropa hypopitys* ditto
(1) near # 5285 *hypopityslanuginosa* (Michx.) Nutt.
full bloom. e

5287 *Umbelliferae Angelica villosa* (Walt.) B.S.P. ditto
(3) open woods growing up from clearing, next slope below High Point.
smooth; fl. white like wild carrot: tall. e

5288 *Crotalaria sagittalis* L. ditto
(1) old brown sedge field near Haperell - Broad Run Station highway
abundant in some dry areas: lami. passing. e

5289 *Hypericaceae denticulatum* ditto
(1) in old field near where *Prunus rigida*
forma globosa grows.
full bloom: abundant. e

5290 *Prunella vulgaris* L. ditto
(2) in old field
last year in wheat: very abundant
now: full bloom. abundant in
deciduous woods, cast woods etc. e

5291 *Dianthus carota* L. ditto
(1) with red flowers: occasionally
seen in white fields. in field
with # 5290. e

Rudbeckia hirta L. Bull Run Mt., Va.
July 24, 1938
in ^{old} field at Haperell Gap Haperell Gap
near *Prunus rigida* H.G. Allard
5292 *forma globosa*. very Fanguier Co.
(1) abundant in old fields: full bloom e

5293 *Lactuca canadensis* L. ditto
(1) old field near # 5292.
abundant: full bloom e

5294 *Paspalum rubescens* Muhl. ditto
(1) in old field near # 5292 e

5295 *Panicum spheerocarpon* Ell. ditto
(1) near # 5292 e

5296 *Oxalis corniculata* L. ditto
(1) with # 5292
fl. yellow: abundant in old brown sedge
field here. e

5297 *Polygala verticillata* L. ditto
(1) in same old field with # 5292:
full bloom e

5298 *Pastinaca sativa* L. ditto
(2) Edge of thickets in old field
just beyond Castellon: large colony
here: full bloom: fl. yellow. e

Cornus stolonifera Michx. Bull Run Mt., Va.
In fence run through Mill Hopperell Gap.
below Castello's. July 24, 1938
H.A. Allard.

5299

(1)

Franklin Co

e

5300 *Sassafras variifolium* Kuntze ditto
(2) Near # 5299: The largest in
Bull Run Mt., is 8 ft in circumference at
heart height. Very beautiful, shapely tree.

e

5301 *Plantago aristata* Michx.

(2) abundant in patch way made by
trunks travelling to a road but in dense
broomedge pasture near old Riley cabin. Here
did not extend on either side of tracks but trunk
which had killed sedge, but very abundant here.

ditto

e

5302

(5) *Mentha spicata* L.

In wet spot by brook below Castello's
field where stone crusher was situated - on
lane leading to Riley's old cabin: full bloom

ditto

e

5303 *Carex lucida* Wahl.

(1)

In same wet spot with # 5302
(Ident. by F. J. Hermann)

ditto

e

5304 *Apocynum cannabinum* L.

(3) Old pasture (broomedge) beyond
Castello's at Hopperell Gap.
abundant: full bloom

ditto

e

5305 *Oenothera biennis* L.

(2) Old field where small cedars
are abundant beyond Castello's, near
lane *Pinus rigida* in field.
Very abundant: full bloom.

ditto

Sida spinosa L.

Bull Run Mt., Va.

July 24, 1938

Hopperell Gap.

Franklin Co

5306

In old broomedge
(2) pasture where many small cedars grow far beyond Castello's
near ravine old barbs from Riley's
old cabin

e

5307 *Chondrilla juncea* L.

(5)

Growing in waste land in
pasture below Castello's near # 5299.
My first record for Bull Run Mts.
full bloom: one or two plants only.
fl. yellow.

ditto

e

5308 *Sabatia solidago juncea* Ait.

(3)

In old broomedge field near
5306: scattered: just coming
well into bloom

ditto

e

5309 *Sabatia juncea angularis* (L.) P.

(2)

In old broomedge field where
Pinus rigida var. *globosa* grows.
abundant here: full bloom: very deep rose,
pink, shiny: very fragrant: buds have white till
transition of corolla.

ditto

e

5310 *Aurates viridiflora* (Raf.) Elton

(2)

In old field with # 5309: scattered
on the high broom-edge fields it is general:
full bloom

ditto

e

5311 *Pyrola asarifolia* (L.) Kuntze.

(2)

In old field beyond Castello's -
in broomedge woods, wet slope
below High Point - deciduous:
common in old broomedge fields.

ditto

e

5312 *Aralia racemosa* L.

(1)

In thicket at Castello's quarry:
full bloom.

ditto

e

~~These haphazardly~~ Bull Run Mt., Va
Hedera ~~in thickets~~ Hoperell Gap,
July 24, 1938
5313 *Castilleja gnarley* H.A. Allard
(2) very abundant; full bloom. Franquiere Co
Under of pennyroyal, strong.

5314 *Cirsium humilimum* (Walt.) Shreve. ditto
(3) In old field beyond Castellaz near
old rail yard (1937) wheat field now
weeded with wild carrot.
passing bloom: scattered.

5315 *Collinsia canadensis* L. Bull Run Mt., Va
(1) In damp rich woods where
we crossed from High Point trail
to ridge Castellaz quarry is on
locally abundant - 3 ft: just coming
into flower here. ditto
July 31, 1938
H.A. Allard
Hoperell Gap and
near slope
Franquiere Co.

5316 *Panicum wheeleri* Pears. ditto
(4) On top of High Point cliffs in thin
soil in exposed places: abundant.

5317 *Carex virens* Muhl. ditto
(2) In woods near foot of High Point cliffs
near slope: only specimens seen: few
caricatures at this season.
Ident. by F. J. Hermann
Aug. 3, 1938.

5318 *Agrium rostellata* Walt. ditto
(2) In rocky woods just below
High Point, near slope: scattered:
full bloom.
(fl. yellow)

5319 *Boehmeria cylindrica* (L.) L. ditto
(3) In swampy, wet woods below
High Point, near slope: abundant:
full bloom.

Habenaria clasellata (Michx.) Bull Run Mt., Va
Franquiere Co
In moss and sphagnum in
5320 swampy woods by
(1) spring below High Point, near slope below
near slope: full bloom; local; not abundant.

5321 *Lactuca canadensis* L. ditto
(2) Old field, damp soil just west of
Hoperell to Broad Run Sta. highway
nearly opposite High Point: abundant;
full bloom.
(fl. yellow)

5322 *Salix sericea* Marsh ditto
(4) Along brook in wet ground
which flows from Big Black walnut tree
across Hoperell to Broad Run station
highway - nearly opposite High Point.
leaves silvery silky beneath.

5323 *Silene parviflora* Muhl. ditto
(4) In old pasture near # 5322
abundant here.

5324 *Cyperus ovularis* (Michx.) Torr. ditto
(3) Growing with # 5323
scattered here. (Ident. by F. J. Hermann)

5325 *Pycnanthemum flexuosum* (Walt.) B.S. ditto
(3) ~~Just~~ Old pasture near # 5323.
abundant here; full bloom.

5326 *Sabbatia angularis* (L.) Pursh. ditto
(1) Old brookside field across from
High Point and just west of Hoperell to Broad Run
station highway.
(near # 5323) full bloom: showy;
locally abundant; very fragrant.

Hanicum anceps Michx. Bull Run Mt., Va
Gramineae. Fannin Co.

- 5327 In old pasture damp soil
near old cabin across
Hoferville to Broad Run Station highway;
abundant; forms large patches, including other species.
full bloom.

- 5328 *Morinda fistulosa* L. ditto
(8) In damp spot across same
road way above - old near
5327. Large colonies here: full bloom.

- 5329 *Asclepias purpurascens* L. ditto
(3) In small across Hoferville to
Broad Run Station highway near old
black walnut tree; full bloom common.

- 5330 *Agrimonia hamiflora* Nutt. Soland ditto
(2) In low ground near old cabin
just west of black walnut tree across
Hoferville to Broad Run Station highway
very abundant here; just coming into bloom.
(head bright; fl. yellow).

- 5331 *Setaria lutescens* (Weig.) Hubb. ditto
(2) In old field near cabin and large
black walnut tree (now dug up)
across Hoferville to Broad Run Station highway
south of Hoferville Gap; scattered.

- 5332 *Cyperus strigosus* L. ditto
(1) Small near # 5329
along brook at black walnut tree
chore. (Ident. by F. J. Hermann)

- 5333 *Sagittaria pubescens* Muhl. ditto
(1) No flowering specimens
in small with # 5332.
Not abundant.

Minulus ringens L. Bull Run Mt., Va
Fannin Co.

- 5334 In small with # 5333: July 31, 1938
full bloom. H. A. Allard.

- 5335 *Helianthus trifoliatum* L. ditto
(1) In old pasture,
damp ground just east of Hoferville to
Broad Run Station highway and
near *Pinus rigida* forma *globosa* Muhl.

- 5336 *Cassia manlandica* L. (2) ditto
In low rain near # 5335.
full bloom; showy; abundant.

- 5337 *Ipomoea pandurata* (L.) Meyer. ditto
(1) In old wooded pasture where
Pinus rigida forma *globosa* grows:
full bloom; abundant.
(Brown dug up a root, 4 ft deep reaching
5.2 lbs.)

- 5338 *Solidago tenuifolia* Pursh. ditto
(1) In old wheat field (1937) where low
Pinus rigida grows, near large Tulip
Poplar tree 15 feet in cir. colony here
in full bloom.

- 5339 *Hypericum punctatum* Lam. ditto
(1) In old field with # 5338.
abundant in old wheat field (1937)

- 5340 *Lactuca inflata* L. ditto
(5) In last year's wheat field (1937) where
5339 grows; abundant below
wild carrot very abundant here; full bloom.

Panicum huachucae Ashe. Bull Run Mt., Va.
In old wheat field where
5341 covered with wild carrot
(planted to wheat 1937) Tangier Co.
July 31, 1938
H.A. Allard
(1) Very abundant here below
wild carrot stratum. (See notes) e

5342 *Vernonia glauca* L. Willd. ditto
(2) In old browned pasture near
old Riley cabin south of Hagerell Gap. e
ad west of Castello's.
abundant here: full bloom.
a frequent element of the high pine ridge
field here.

5343 *Commelina communis* L. ditto
(2) Roadside below Castello's,
Hagerell Gap: damp soil. e

5344 *Eleocharis obtusa* (Willd.) Schultes. ditto
(1) Growing by roadside in wet ditch
below Castello's, Hagerell Gap. e
Ident. by H.A. Allard; confirmed by T. J. Hermann

5345 *Oxalis corniculata* L. ~~*europaea*~~ *var. aymosa* (L.) Vig. ditto
(1) Roadside in grassy field
near at Hagerell Gap, between
Castello's and Owens' where no park e
car: abundant; full bloom.

5346 *Juncus acuminatus* Michx. (proliferous form) ditto
(2) Beside railroad just
above Beverly Mill. Bull Run Mt., Va.
Tangier Co.
Thoroughfare Gap.
August 7, 1938
H.A. Allard
(Ident. by T. J. Hermann) e
in wet soil and water.

5347 *Hypericum mutilum* L. ditto
(2) Damp soil beside #5346
abundant in damp ground. e

Sarothra gentianoides L. Bull Run Mt., Va.
Tangier Co.
August 7, 1938
H.A. Allard
on railroad
just above
Beverly Mill:
5348 abundant; full bloom.
(orange red) Thoroughfare Gap. e
(1)

5349 *Verbena hastata* L. ditto
(blue var. var.)
(2) In wet swale along Broad Run
west of Broad Run station:
abundant; full bloom. e

5350 *Panicum huachucae* Ashe ditto
(1) In same swale with #5349 e
very wet, low along Broad Run.

5351 *Gramineae - Panicum agrostoides* Spreng. ditto
(1) In swale with #5349. e
only one specimen found here.
purplish panicles.

5352 *Scutellaria integrifolia* var. *typica* Ehl. ditto
(1) Same swale with #5349. e
abundant here; last flower.

5353 *Prunella vulgaris* L. ditto
(1) In a farm with more, snow white
flowers; first I have ever seen) e
In swale with #5349; blue form
abundant here) e

5354 *Panicum huachucae* Ashe ditto
(1) In ground with #5349. e

Galium asprellum Michx. Bull Run Mt., Va
In wet swale Aug. 7, 1938
along Broad Run Franquier Co.,
5355 near Broad Run Station HA, Allard
abundant: full bloom
fl. white.

5356 Euphorbiaceae.
foliage reddish ditto
on railroad (dry) just above
Broad Run Station
abundant *Chamaecyparissus* (L.) small,
Euphorbia supina Raf. e

5357 *Elephantopus carolinianus* Willd. ditto
In woods at Shouting Spring
just above Beverly Mill beside railroad.
Full bloom: frequent. e

5358 Labiateae - *Erigeron canadensis* L. ditto
In swale with # 5355.
abundant: nearly past blooming: fl. rose-pink e

5359 *Hypericum punctatum* Lam. ditto
with # 5355
abundant: full bloom. e

5360 Labiateae
In same swale with # 5355 ditto
abundant: full bloom
Koeleria blechnosa (Walt.) MacMill. e

5361 *Galium tinctorium* L. ditto
In swale with # 5355
abundant: full bloom. e

Bull Run Mt., Va
Aug. 7, 1938
HA, Allard
Thoroughfare of
Franquier Co. e
In swale along Broad Run
just west of Broad Run
5362 station: very wet.
part blooming.
Lysimachia terrestris (L.) B.S.P.

5363 *Verbena stricta* L. ditto
(white variegation)
In same swale with # 5362 e

5364 *Eleocharis acicularis* (L.) R. & S. ditto
In mud and water of Broad Run
nearby west of Broad Run station
there are extensive bog here
abundant here; not elsewhere - this
ident. by F. J. Hermanns area. e

5365 *Helianthus giganteus* L. ditto
along railroad just above Broad Run
station: just in flower.
fl. light yellow. e

5366 Euphorbiaceae - *Euphorbia preslii* (Guss.) ditto
on railroad just above Broad Run station
abundant: full bloom. e

5367 *Andropogon furcatus* Muhl. ditto
Beside railroad just above Broad
Run station.
My first record for Bull Run area.
uncommon here. e

5368 *Diodia teres* Walt. ditto
On Railroad just above Broad Run
station:
abundant: full bloom. e

Polygonum aviculare L. Bull Run Mt., Va.
Aug. 7, 1938
along railroad just
above Broad Run Station. Thoroughfare Gap.
5369 abundant; full bloom. F. Angier Co.
B

5370 *Oxalis stricta* L.
on railroad just above Broad Run Station. ditto
abundant; full bloom.

5371 *Hedeoma pulegioides* (L.) Pers.
on railroad just above Broad Run Station. ditto
very abundant; full bloom.

5372 on railroad just above Broad Run
Station: abundant. ditto
(3) (lvs. very leafy, small).
Angelica polygona Raf.

5373 *Cynodon dactylon* (L.) Pers.
on railroad bed just below Broad Run Station. ditto
scattered here: in bloom.

5374 *Cuscuta cephalanthi* Engelm.
on *Hedeoma pulegioides* ditto
and on *Bidens bipinnatus* L.
Beside railroad just above Broad Run Station.
abundant; full bloom.

5375 *Oxalis stricta* L.
Beside railroad near Broad Run Station: abundant. ditto

Digitaria sanguinalis (L.) Scop. Bull Run Mt., Va.
Fauquier Co.
on railroad at Broad Run Station Aug. 7, 1938
abundant. HA Allard.
above Thoroughfare Gap

5376

(2)

Poinsettia
5377 *Euphorbia dentata* (Michx.) Small. ditto
on railroad just above and
at Berkeley Mill: abundant here: full bloom
(5)

5377a *Poinsettia cubensis* (Engelm.) Small.
My only record in Bull Run area (?)

5378 *Chamaesyce preslii* (Guss.) Arthur. ditto
on railroad near Broad Run Station: abundant; full bloom.

5379 *Stenophyllus capillaris* (L.) Britton. ditto
on railroad above Broad Run Station
very abundant here in almost pure stands
in cinders etc.
Ident. by H.A. Allard (confirmed by T.G. Hermann)

5380 *Eragrostis pectinacea* (Michx.) Nees. ditto
Gramineae.
on tufted, grayish on railroad
track, etc. abundant at Broad Run Station

5381 *Eragrostis spectabilis* (Pursh) Steud. ditto
(4) on railroad just above Berkeley Mill

5382 *Cynodon dactylon* (L.) Pers. ditto
(2) on cinders on railroad
near Broad Run Station.
abundant; flowering.

Agrimonia parviflora Nutt. Bull Run Mt., Va.
Soland Tranquien Co.
In damp meadow August 7, 1938
5383 on Broad Run just above Thoroughfare H.A. Allard
(1) Cal. above R.R. leaves Thoroughfare Gap, Cal.
cut - meadow long grass on left
here; very abundant; full bloom. e

5384 *Eupatorium coelestinum* L. ditto
(2) In small along Broad Run near (west) of Broad Run Station, e
a low area all the way to the cooling station at bridge above Broad Run Station; abundant here; full bloom; fl. purple, showy.

5385 *Lycopus americanus* Mill. ditto
(2) In same small with # 5384 abundant; full bloom. e

5386 *Mimulus ringens* L. ditto
(2) Same small with # 5384; abundant; full bloom. e

5387 *Scirpus validus* Vahl ditto
(2) Same small with # 5384. small colony only. e
(Ident. by F. J. Hermann)

5388 *Scirpus cespitosus* (L.) Kunth ditto
(3) In same small with # 5384. Very abundant here. e
(Ident. by F. J. Hermann)

5389 *Brassicaceae*. ditto
(1) Same small with # 5384 very few plants; fl. yellow. e
Radiola hibernica (L.) Moench.

Penthorum sedoides L. Bull Run Mt., Va.
Same small with # 5384 Tranquien Co.
Tall herb; shortly serrate Aug. 7, 1938
5390 leaves; flowers in a terminal cyme H.A. Allard
(4) panicles, whitish or yellowish above Thoroughfare Gap, Cal. e

5391 *Asclepias purpurascens* L. ditto
(1) Same small with # 5384 very abundant here. e
= *A. pulchra* Ehrh.

5392 *Cephalanthus occidentalis* L. ditto
(3) Same small with # 5384. abundant here on Broad Run; e
have not found it elsewhere.

5393 *Plantago aristata* Michx. ditto
(1) On railroad near Broad Run Station. abundant here. e

5394 *Polygonum* ditto
(2) Same small with # 5384. abundant; full bloom; fl. white. e
= *Persicaria punctata* (Ell.) Small.

5395 *Indigofera alternifolia* L. ditto
(1) Same small with # 5384. abundant; full bloom. e

5396 *Crotalaria sagittalis* L. ditto
(2) On railroad just above Broad Run Station. Leaves very narrow; full bloom. e

Epilobium coloratum Muhl. Bull Run Mt., Va
in small just above Franquier Cr.
5397 Broad Run Station H.A. Allard
along Broad Run Thoroughfare Gap
creek on left of railroad.
(1) full bloom; abundant here.) e

5398 *Cirsium lanceolatum* (L.) Mill. ditto
(1) in same meadow near
5397: very abundant; coming
well into bloom; tall, rank.) e

5399 *Scirpus polyphyllus* Vahl. ditto
(3) along Broad Run in
wet area near Broad Run Station.
(Ident. by F. J. Hermann)) e

5400 *Scirpus cyperinus* (L.) Kunth. ditto
(2) small on Broad Run above
Beverly Mill on left side stream
leaves cut and withered.
(Ident. by F. J. Hermann)) e

5401 *Mentha cardiaca* Berard. ditto
(2) small near Broad Run Station,
along Broad Run where it leaves
the cut and withered above Beverly.
full bloom: pink fl. is not abundant.) e

5402 *Ludwigia palustris* (L.) Ell ditto
(4) *Ludwigia palustris* L. # 5401
abundant here. As we walk
from Beverly to Broad Run Station, and
cross the railroad cut, this is low ground
on left on Broad Run in small here.) e

5403 *Anagallis arvensis* L. ditto
(3) Primrose
by railroad above Beverly Mill.
abundant; full bloom.) e

Crotos glandulosus L. Bull Run Mt., Va
on railroad at Franquier Cr.,
just above Beverly August 7, 1938
5404 Mill. abundant: H.A. Allard
(11) Thoroughfare Gap.
Only seed in Bull Run area.) e

5405 *Koeleria nicana* (L.) Nutt. ditto
(2) on railroad bank in thicket
just above Beverly Mill; abundant;
full bloom.) e

5406 *Sonchus oleraceus* var. *glaberrimus* (L.) DC. ditto
(1) Rail road near Beverly Mill.
full bloom: bright yellow heads.) e

5407 *Cyperus strigosus* L. ditto
(1) not struck by railroad near
Beverly Mill (Ident. by F. J. Hermann)) e

5408 *Cyperus flaccidus*
(1) not struck by Railroad at Beverly Mill ditto
(Ident. by F. J. Hermann)) e

5409 *Acalypha virginica* (L.) Gray. ditto
(2) Rail road near Beverly Mill.
very abundant.) e

5410 *Cassia nictitans* (L.) Muhl. ditto
(3) Rail road near Beverly Mill;
abundant; full bloom; fl. small;
leaves clearly shiny when struck, so we can see
motion.) e

Euphorbia
on railroad
5411 near Berenly Mill. Bull Run Mt., Va
August 7, 1938
Fauquier Co.
H.A. Allard
Near Thoroughfare Gap.
Poinsettia cuthasforma (Engelm.) Small. e

5412 *Oxalis europaea* forma *acymosa* (Small) Wieg.
Railroad just above Berenly Mill. ditto
Abundant: full bloom. e
5412a: *Oxalis stricta* L.

5413 *Hypericum gentianoides*
Railroad near Berenly Mill. ditto
Abundant: full bloom. e
= *S. arthra gentianoides* L.

5414 *Medicago lupulina* L.
Railroad at Berenly Mill. ditto
full bloom: only locality in this area. e

5415 *Chenopodium album* L.
By Railroad near Berenly Mill. ditto
e

5416 *Eleocharis obtusa*
in wet soil by railroad just above Berenly Mill: abundant. ditto e

5417 *Cyperus flarescens* L.
in wet soil by railroad at Berenly Mill. ditto e

Paspalum pubescens Bull Run Mt., Va
Fauquier Co.
August 7, 1938
H.A. Allard
Near Thoroughfare Gap.
5418 (1) Berenly Mill e

5419 *Leersia angustoides* (L.) Sw. ditto
in wet soil just above Berenly Mill by railroad. e

5420 *Sharganum evycastrum* androcladium (Engelm.) Munz.
in mud and water on left of Broad Run just above cut
(9) at Thoroughfare Gap going toward Broad Run station: abundant. ditto e

5421 *Carex frankii* Rostk. Schmidt.
in wet soil along Broad Run just above where railroad leaves Thoroughfare Gap: in small at left, where railroad leaves cut: abundant. ditto e
Identified by F. J. Hermann

5422 *Sagittaria hirsutissima* Mark. & B. ditto
(4) in water and mud in small along Broad Run at left just above Broad Run station. e
5422a (same as above) = 5422

5423 *Sagittaria latifolia* pubescens Muhl. ditto
in small north of Broad Run station along Broad Run. (pubescent) e

5424 *Dianthera americana* L.
in Broad Run at Berenly Mill. ditto
not in bloom; past bloom, but for a record. e

Tenorella canadensis Bull. Run Mt., Va
mint. Franquier Co
August 7, 1938
5425 bl pink. Near Thoroughfare Gap.
(2) In small on Broad Run H.A. Allard
just west of railroad above
Broad Run Station: passing.

5426 *Commelina communis* L. ditto
(3) on bank beside railroad
near Bererly Mill: abundant:
full bloom

5427 *Alisma plantago* ^{subcordatum Raf.} ~~agnatica L.~~ ditto
(1) In small of mud and water
just above Thoroughfare Gap
on Broad Run: not abundant;
full bloom.

5428 *Gypsea petiolata* L. Ruby. ditto
(1) ^{Parsonia} In meadow and along railroad
just above Thoroughfare Gap.
Very abundant: full bloom.

5429 *Rhynchospora* ^{capitata (Michx.)} ~~lanceolata (L.)~~ ^{var. minor Britton} ditto
(3) In damp low shot at
Gap below abandoned CCC camp. Damp shot at Gap
a dense pine area here: very beyond 3 miles mt.
abundant. Ident by F.J. Hermann. August 14, 1938
H.A. Allard

5430 *Juncus effusus* L. var. ^{solutus Torr.} ~~diffusus~~ ditto
(5) Growing beside # 5429. Large clumps. Ident. by F.J. Hermann.
Damp soil. (seeds without tails)

5431 *Juncus macrocarpus* S.F. Gray ditto
(3) Growing near # 5429. abundant.
(seeds without tails)

Lycopodium virginicum L. Devils Hole Mt., Va
same low shot with Shenandoah Co.
August 14, 1938
5429. H.A. Allard
5432 leaves decided at abandoned CCC camp
(4) purplish beneath. in Gap beyond 3 miles mt.
(Alleghenian.)

5433 *Juncus marginatus* Roth. ditto
(2) Growing with # 5429
seeds without tails.
(Ident by F.J. Hermann)

5434 *Juncus macrocarpus* S.F. Gray. ditto
(2) Growing with # 5429
(seeds not tailed) (Ident by F.J. Hermann)

5435 *Eupatorium sessilifolium* L. ditto
(1) On trail at top and along
Devils Hole Mt.: abundant: full bloom

5436 *Pyrananthemum incanum* Michx. ditto
(2) On same dry ridge with # 5435
abundant: full bloom on trail here.

5437 *Physocarpus opulifolius* (L.) Maxim. ditto
(2) On same dry rocky ridge crest
with # 5435: abundant here.
why?

5438 *Cladonia* ditto
(1) On bank on dry ridge crest
with # 5435: abundant.

Asplenium montanum Willd. Devils Hole Mt., Va.
on dry cliff shelves Shenandoah Co..
August 14, 1938
5439 shaded from sun at very top, and far from water. H.G. Allard. Alleghenies

Rock a red sandstone apparently
and shaley. a number of disjuncts
here.

5440 *Juncus macer* S.F. Gray.

" Growing in damp soil near
abandoned CCC camp at Gap beyond
3 mile mountain near peak of Devils Hole Mt.
(Ident. by F. J. Hermann)

5441 *Juncus marginatus* Rostk

" Growing with # 5440 ditto
(Ident. by F. J. Hermann)

5442 *Cyperus strigosus* L.

" Growing with # 5440 ditto
(Ident. by F. J. Hermann)

5443 *Juncus subcandatus* (Engelm.) Gill & Blake ditto
" Growing near # 5440
(Ident. by F. J. Hermann)

5444 *Juncus marginatus* Rostk

" Growing near # 5440 ditto
(Ident. by F. J. Hermann)

5445 *Juncus acuminatus* Michx.

(2) Growing with # 5440. ditto
(Ident. by F. J. Hermann)

Rhynchospora glomerata (Willd.) Britton & Allen
var. *minor* Britton & Allen
Same spot at Shenandoah Co.

5446 abandoned CCC camp August 14, 1938
171 at Gap beyond 3 mile Mt., Va. near of Edinburgh.
(Ident. by F. J. Hermann)

5447 *Juncus macer* S. anthelatus ditto
" Near # 5446 (Ident. by F. J. Hermann)

5448 *Juncus marginatus* Rostk. ditto
" Near # 5446 (Ident. by F. J. Hermann)

5449 *Juncus macer* S. anthelatus ditto
(2) Same locality with # 5446. (Ident. by F. J. Hermann)

5450 *Juncus macer* S.F. Gray. ditto
" Same locality with # 5446
(Ident. by F. J. Hermann)

5451 *Juncus marginatus* Rostk. ditto
" Same locality with # 5446
(Ident. by F. J. Hermann)

5452 *Juncus subcandatus* (Engelm.) Gill & Blake ditto
" Same locality with # 5446.
(Ident. by F. J. Hermann)

Juncus marginatus Roth. Deils Hole Mt., Va
at abandoned CC Camp Shenandoah Co
out Gap beyond 3 mile Mt., August 14, 1938
5453 in moist soil. H.A. Allard.
(2) Ident. by T.J. Hermann) e

5454 *Juncus macrocarpus* (Wieg.) Hermann. ditto
same locality with # 5453 e

5455 *Eleocharis obtusa* Willd. ditto
(4) at same wet spot with # 5453; abundant here e

5456 *Juncus marginatus* Roth ditto
(2) same locality with # 5453 e
(Ident. by T.J. Hermann)
5456 A - *J. subcandatus* (Engelm.) Coville & Blake

5457 *Cyperus strigosus* L. ditto
(4) same low spot with # 5453 e
(Ident. by T.J. Hermann)

5458 *Hibiscus oculi roseus* Britton e
(2) Swale on left of road near Columbia Turnpike
to Columbia Turnpike several miles west
along Stony Creek. of Edinburgh in
Shenandoah valley,
very abundant; full flower. Shenandoah Co.
August 14, 1938
H.A. Allard.

5459 *Pilea pumila* (Lunell) Rydb. ditto
(3) same swale with # 5458. e
(Ident. by T.J. Hermann)
Aug 26, 1938.

Scirpus cespitosus (L.) Kunth. Bull Run Mt., Va
in swale just Franquier Co
along Broad Run station August 13, 1938
5460 (2) abundant H.A. Allard
(Ident. by T.J. Hermann.) e

5461 *Sagittaria pubescens* Muhl. ditto
in swale close to road
(2) just north of Broad Run station; e
very abundant here; just in flower.

5462 *Cornus bicolor* L. ditto
(4) Dry road side bank just west
of Thoroughfare Gap: A huge, branching
bush 6 ft high: flowers yellowish white e
turning reddish; not abundant here
some on Triassic area near Thoroughfare.


5463 *Quercus alba* L. Allard's yard
(4) (all from same tree) 3000-7th St. N.E.
Arlington, Va
August 18, 1938
H.A. Allard e


5464 *Quercus alba* L. ditto
" from a different tree.
lobes coarser. e

5465 *Rudbeckia triloba* (L.) Smith e
(5) In low grassy field along Massanutten Range,
valley Pike on road from August 19, 1938
below Mt. Jackson to Short Mt. H.A. Allard
abundant; full flower. e

5466 *Liatria scariosa* Willd. ditto
(3) steep shale (dry) near roadside
where we parked. just in flower. e

Mass. In woods Smith end of Short Mt., Va
(thin) in Cetraria Massanutten Range,
islandica colony. Shenandoah Co.
5467 August 19, 1938.
H.A. Allard

5468 *Cladonia* 
On shales in thin woods ditto
near Cetraria islandica colony

5469 *Cladonia*
Same locality with # 5468 ditto


5470 *Rubria eupatorioides* L. e ditto
(3) On dry shales below cliffs:
abundant; full bloom but passing
(cream white fl.) at signal knot
a typical shale plant on all these shales, to

5471 *Commelina erecta* L. ditto
(5) On shales well up Short Mt. here;
abundant on all these shales
throughout: a typical shale barren plant.
full bloom. e

5472 *Scutellaria parvula*
Leonardi Ehl. ditto
(1) On shale slope well up mt. e
near # 5471

5473 *Quercus rubra* ^{maxima} Ashe ditto
(1) acorns peculiar in being
(3) very long on this tree. cup 1.8 cm across
acorn 2.7 base to top e
" 1.5 projecting from same.

South end of Short Mt. Va
Quercus rubra ^{maxima} Ashe ditto
On shale barrens August 19, 1938.
5474 below cliffs. H.A. Allard
abundant; acorns on shale slope below
(2) normal, not as long as cliffs. H.A. Allard.
as in # 5473. very prolific: trees
multiple stemmed, 10-15 feet high. e
a common shale barren tree.

5475 *Quercus muhlenbergii* Engelm. ditto
abundant on the shales below the
(17) cliffs: full fruit: but young, much less
mature than true Rock Chestnut oak
also here. Especially abundant here:
some badly mildewed, e

5476 *Quercus prinus* L. ditto
(1) abundant in scrubby form on
the shale barrens here) e

5477 *Eragrostis spectinacea* (Michx.) Nees
(2) Growing on side walk Front Royal,
Warren Co., Va. August 19, 1938
on a street in Front Royal; H.A. Allard.
very vigorous. e

5478 *Quercus rubra* ^{maxima} Ashe ditto
(3) On shales with # 5475 etc. e
(Below cliffs on shales proper, but
all over the mountain to the cliffs)

5479 *Quercus rubra* ^{maxima} Ashe ditto
(1) On shales below cliffs: e
acorns long as in # 5473

5480 *Quercus rubra* ^{maxima} Ashe ditto
(2) acorns and cups large: e
proportionately shorter and
thicker than # 5473 & # 5479.
on shale barrens with # 5479

Bidens bipinnata L. South end of Short Mt., Va.,
Massanutten Range,
on cliffs and Shenandoah Co.
5481 rocks at extreme August 19, 1938.
(4) Top of ridge at H.A. Allard
2700 ft. Some flat rocks with thin
soil (horizontal) covered with fine stand of
small plants among mosses.
Mosses kept them moist.

5482
(4) *Empetrum sessilifolium* L. ditto e
on top of cliffs at 2700 feet
highest point on this ridge; full bloom;
abundant.

5483 Moss. On top of cliffs at 2700 ft.
(1) On large horizontal rock of 8-10 ditto
square feet with # 5484 with which it was
competing. This rock covered entirely with
a fine covering of these two mosses.

5484 Moss
(1) a beautiful bright green moss
growing on same flat rock with # 5483, ditto
competing with it

5485 *Salix latifolia* Michx. ditto
(1) On top of cliffs near # 5482
part blooming. in fruit; abundant;
but not on shales below. This habitat on
cliffs above shade one of deciduous, dry woods.

5486 *Polygonum texense* Michx. ditto
(3) On barren shales below cliffs.
scattered here.

5487 *Allium cernuum* Roth e ditto
(1) On barren shales and shale
cliffs below upper cliffs; abundant.
part blooming; a typical shale plant
here in very barren places.

Selaginella rupestris L. Spring end of Short Mt., Va.
Massanutten Range,
On barren shales and Shenandoah Co.
5488 shale outcrop August 19, 1938
below cliffs; H.A. Allard
(1) abundant; gray green like a moss;
oppressed.

5489 *Portulaca caespitosa* (Michx.) Torr. ditto e
(3) on shales directly below cliffs;
one patch about 12 x 25 ft in area;
full bloom; my first record for Virginia

5490 *Celtis occidentalis* *crassifolia* Lam. ditto
(3) on shales just below peak
of Clinton sandstone; abundant
here, but scrubby.

5491 *Quercus prinus* L. ditto
(1) (Rock Chestnut Oak)
on barren shales near # 5490; e
abundant; fruitful.

5492 *Quercus muhlenbergii* Engelm. ditto
(1) On barren shales near
5490; abundant; fruitful,
but acorns less advanced than
Quercus prinus. Have three pairs
found it only on south end
of Short Mt.

5493 *Carduus arvensis* L. Great Valley of Va.
(5) Abundant by roadside e Shenandoah Co.
near Woodstock; still on Valley Pike
blooming but mid season earlier - August 21, 1938
H.A. Allard.

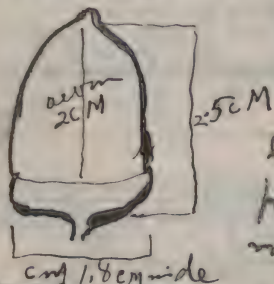
5494 *Helianthus strumosus* Bull. Bull Run Mt., Va.
(3) e *Helianthus scabra* Desf. e
beyond Thoroughfare Gap on Shenandoah Co.
The right of detour on rough road August 21, 1938
H.A. Allard.
14 inch Rudbeckia laciniata here
also. fl. rich deep yellow comp. with *R. laciniata*

Houstonia tenuifolia Nutt. Three Top Mt., Va. west slope
 on barren shales Shenandoah Co.
 on ridge beyond Massanutten Mts.
 5495 August 21, 1938
 (1) packed on Pughs Run H.A. Allard
 road: abundant; still
 in bloom on rocky upper slopes. e

5496 *Angelica polygonoides* Raf. ditto
 (2) on black shales (bad, barren) e
 with # 5495, forming extensive
 pure stand patches; also in woods
 above: full bloom. Honey bees visit them
 during bloom, finding them readily.

5497 *Setaria viridis* (L.) Beauv. ditto
 (2) on barren shales where
 little else grows; near # 5495
 scattered over there. e

5498 *Quercus rubra* Moench. ditto
 (2) *noquina* Ashe
 on barren shales
 with # 5495: abundant,
 low, scrubby - 10-15 ft. high;
 productive; abundant all
 way up mountain to top. e



5499 *Isanthus brachiatus* (L.) B.S.P. ditto
 (4) on barren shales above the steep cliff
 outcrops; abundant here: full bloom. e
 first record for Va. a typical shale plant.
 (Near # 5495)

5500 *Carex frankii* Kunth. ditto
 (3) In cellar of old abandoned
 house at foot of mt. near floor. e
 a large clump here. (Extensive thickets
 of wine berry here)

5501 *Meibomia dillenii* Darl. ident. by F. J. Hermann. e
 (4) In pasture thicket near
 old house mentioned
 for # 5500; abundant. e

Crotogeomys pruinosus (Nutt.) Massanutten Range.
 (1) fruit ripe, crimson. Shenandoah Co.
 a large colony on August 21, 1938
 5502 cliffs at very H.A. Allard
 (3) Top of ridge, old fruiting heavily; e
 very showy with crimson fruit.

5503 *Quercus prinus* L. ditto
 (1) On upper slope at top just e
 below # 5502.
 Dominant sh. with Red Oak: fruiting
 heavily.

5504 *Ribes Rossularia rotundifolia* Michx. & Britt. ditto
 (2) (grouseberry) on upper slopes on exposed
 sunny slides: scattered and more or
 less general. e

5505 *Carya glabra* (Mill.) B.S.P. ditto
 (4) on barren shales with # 5503, e
 where abundant, but low - 10-20 ft., scrubby;
 bearing prolifically: a true shale species
 here, even where little soil on cliffs.

5506 *Clitoria mariana* L. ditto
 (3) abundant, full bloom on shale e
 barren here, where steep, loose,
 forming large, paired colonies.
 Very showy: a shale lover.

5507 *Labiatae* Near Woodstock, Va.
 (3) (fl. pink) e Roadside on Valley Pike
 August 21, 1938
Calamintha Nepeta Link H.A. Allard.

5508 *Spiranthes beckii* Lindl. ditto
 (1) In old field near
 old abandoned house where
 # 5501 grew. e

Juncus scirpoides Lam Bull Run Mt., Va
August 28, 1938
H.A. Allard
Prince William Co.,
North of Antioch.
5509 In low ground
along weiflow
below chestnut tree
spring at Allen's (negro) cabin, east slope.
(1) This beyond Mrs. Ashby's (nest) & e
(Ident. by F.J. Hermann)

5510 *Rhynchospora capitellata* (Michx.) Vahl. ditto
(1) Growing abundantly with # 5509 -
along low area here. e
(Ident. by F.J. Hermann)

5511 *Solidago nemoralis* Ait ditto e
(1) Old field near Allen's cabin -
just west of # 5509: abundant; full bloom
(Green) Tomald

5512 *Solidago graminifolia var. nuttallii* (Green) Tomald ditto
(1) Dry old field: growing beside
5511: abundant: just coming
into bloom e

5513 *Eupatorium hyssopifolium* L ditto
(3) Dry thicket in cut over woods
east slope just above Allen's chestnut tree
spring: abundant here: full bloom. e

5514 *Samolus rotundifolius* L. ditto
(1) Same thicket with # 5513
abundant: fruit green yet. e

5515 *Lobelia spicata* Nuttall Michx ditto
(4) Same thicket with # 5513
abundant: full bloom: fl. blue. e

Sphagnum Bull Run Mt., Va
North of Antioch -
Prince William Co
August 28, 1938
H.A. Allard.
In same thicket
with # 5513: a
5516 seepage spot here on
(1) an otherwise very dry,
rocky steep mountain slope; practically
dry now: but mass healthy. e

5517 *Lespedeza bicolor* (L.) Hornem. ditto
(3) In same thicket with # 5513:
abundant here and on dry rocky wooded
ridge above: full bloom: fl. cream. e

5518 *Lespedeza frutescens* (L.) Britton ditto
(3) In same thicket with # 5513:
abundant: full bloom: in dry
woods above on crest etc: fl. purple e

5519 *Populus grandidentata* Michx. ditto
(2) On crest of dry ridge in turn
on easternmost ridge just west of
Ashby's: abundant: these leaves
very pointed. e

5520 *Desmodium laevigatum* DC ditto
(4) On hillside in thicket and young
growth of pines (Va) & rigida and
chinquapin just S.W. of Allen's: abundant
on all dry ridges here: full bloom: fl. purple
just in flower: tall: slender to head high. e

5521 *Meibomia lineatum* DC. ditto
(2) ~~Desmodium laevigatum~~ *Meibomia*
growing with # 5520: (are not a pair)
abundant: full bloom: on
dry wooded ridges generally. fl. purple. e

5522 *Meibomia dillensis* Darl. ditto
(2) In same locality with # 5520: ditto
abundant: full bloom: fl. purple. e

In small between Great Valley of Va
Edinburgh and Columbia Shenandoah Co.
Flora. (Plants) Sept. 5, 1938 e
5523 of same colony coll. H.A. Allard
Aug. 26, 1938
Pilea See # 5459 - Pilea fontana (Dunell.) Rydb.
ident. by F.J. Hermann
9-8-38

5524 *Amelanchier montanum* Shenandoah mts.
18, on dry shale slopes. #5529 west Va., Hardy Co.
where road side was built into Sept. 5, 1938
at top of mountain: a pure stand
nearly closed: leaves very large, HA Allard
ident. by Dr. F.J. Hermann
9-8-38

5525 *Scirpus capillaris* var. *pelius* Torr. (ident. by Dr. F.J. Hermann 9-8-38)
31. Damp spot by roadside Spruce Knob,
at 4400 ft Pendleton Co.,
west Va.
abundant. Sept. 5, 1938
H.A. Allard

5526 Moss.
11 Damp spot in open
pasture just west of Mr. Moses
Bennett place. Here *Anaphalis*
margaritacea is abundant. ditto
- *Pogonatum pensilvanicum* (Hed.) Paris.
5527 *Juncus macer* S.F. Gray.
11 Near # 5526 e ditto
abundant. ident. by Dr. F.J. Hermann
9-8-38

5528 *Centaurea maculosa* L. Out of a
31 on highway from Shenandoah mts.,
Harrisonburg to Thompsons Va., Rockingham Co.,
beside road near west Va. line. Sept. 4, 1938
several plants: full bloom. H.A. Allard.
showing. (Cuneifolius Pilake S.F. Hermann 9-8-38)

5529 *Amelanchier montanum*.
151 same locality with # 5528. e ditto
very abundant: on dry shales by
roadside: appears localized at
high altitudes in mts.
- *Paronychia festigata* (Raf.) Torr.
var. *humilis* (Wood) Torr. - ident. 9-8-38 by Dr. F.J. Hermann

Composite yellow fl. L. In Geo. Wash. Nat. Forest
= *Hieracium pilosella* L. beyond Harrisonburg, Va.
on road to Thompsons, West Va.
5530 in woods Sept. 4, 1938
H.A. Allard
11 by stream before
ascending Shenandoah Mt. e
ident. by S.F. Blake 9-8-38

5531 water plant
at stream shore # 5530 green. ditto
11 Fronds extremely dense green
patches on water and in mud:
no flowers.

5532 *Solidago rugosa* Mill. at Doss, west Va.
31 all over the plateau Tucker Co.,
here the most abundant Sept. 5, 1938
goldenrod: full bloom. H.A. Allard.
very showy. These found alt. 3100 ft
near old pulp factory mine.

5533 *Aster umbellatus* Mill. e
11 same loc. with # 5532. ditto
were the plateau. the most abundant
species. entering the thicket.
Schellingeria umbellata (Mill.) Nees

5534 *Aster*.
11 Growing on outcrops with
5533: abundant: full bloom:
rays blue, showy. ditto

5535 *Catalpa baccata* (L.) Scop. e ditto
11 Growing near # 5532
abundant: full bloom.
Synsphaera sarscolella (L.) Raf.

5536 *Cirsium arvense* (L.) Scop. e ditto
11 Growing at ruins of
deserted pulp factory
at Doss: a few plants: in full
bloom. Growing near # 5532.
ident. 9-8-38 by Dr. F.J. Hermann

Spiraea salicifolia
In low ground
5537 near Allegheny Trout. Tucker Co.,
nearly past blossom; H.G. Allard.
(2) very abundant.
Leonard says *S. alba* DuRoi
is current. e

5538 *Polytrichum commune* Hedw.
Mass ditto
(2) In low ground and very wet producing a
very green boggy roadside, water beneath
ill-smelling. Note long dead portion
below; this singular to a sphagnum
bog. e

5539 *Solidago puberula* Nutt. on top of Shenandoah Mt., Va.
(2) on wood road near West Va. line.
from Lost River to Shenandoah Co.
Columbia Turnpike. Sept. 5, 1938 e
full bloom; abundant. H.G. Allard

5540 *Angelica villosa* (Walt.) B.S.P. Bull Run Mt., Va.
on roadside in woods Sept. 11, 1938. Franquier Co.
1 mile north on valley road H.G. Allard
crossing R.R. just south of put north of thoroughfare
Berkeley Mill. Scattered in fruit mostly
H. v. (v. v.) e

5541 *Cuscuta compacta* Guss. in
Hydrangea arborescens ditto
In woods beside road near # 5540 e

5542 *Gerardia tenuifolia* Vahl
(3) on wooded bank near # 5540 ditto
full bloom; flowers purple.
By roadside here e

5543 Moss
(1) In woods on bank north
of R.R. at Berkeley Mill.
about 1 mile north. ditto

Lespedeza procumbens Michx. Bull Run Mt., Va.
Sept. 11, 1938
In pasture north of old chimney and cellar
hole north of R.R. on Franquier Co.
valley road - near edge of woods.
This near the flag stone granary here. e

5545 *Quercus rubra* L ditto
(1) Red oak - typical.
Large tree just beyond here # 5544 grass
on fence run near flag stone granary
and negro houses. e

5546 *Carya glabra* (Mill.) Britton ditto
(3) Tree on edge of woods beyond
5545 just above negro houses. e

5547 *Carex tripteris* L ditto
(2) Old field around abandoned cabin
beyond # 5546 - very abundant this
year. Last year very few; perennial.
Field yellow. e

5548 *Leslea racemulosa* Lam. ditto
(3) In old pasture near granary
near old cabin where # 5547 grows;
abundant. e

5549 *Eragrostis spectabilis* (Pursh.) Steud ditto
(2) In old field or pasture near
5547, abundant; showing
reddish purple. e

5550 *Heibornia* ditto
(2) In same old pasture
near # 5544. dilleria. Dark, e
Desmodium

Aristida oligantha Michx. Bull Run Mt., Va

Sept. 11, 1938

5551 In old pasture. H.A. Allard
Fauquier Co.

(1) 5549, 5550 etc.

Large areas in dry sterile soil, e

5552 *Rudbeckia hirta* ^{monticola small}
(1) In same old field with ditto
5551 etc. a few still in
bloom; mostly past. was very abundant
this field. e

5553 *Solidago pinnatifolia* var. *monticola* Nutt. ditto
(2) var. *monticola* ?
In same old field with
5551: abundant here, e
(very brittle)

5554 *Cyperus strigosus* L
(1) not shot in old pasture near ditto
5551 (Det. by F. J. Hermann
9-19-38) e

5555 *Panicum philadelphicum* Bernh.
(1) In same old field with ditto
5552 e

5556 *Cyperus strigosus* L
(1) In not shot in same old ditto
field near # 5555
(Det. by F. J. Hermann 9-19-38) e

5557 *Cyperus rivularis* Kunth
(2) In not shot in old field ditto
near # 5554.
(Det. by F. J. Hermann 9-19-38) e

Trinervia tylosis *antennalis* Bull Run Mt., Va

Sept. 11, 1938

5558 In low spot near Fauquier Co.
H.A. Allard.

5554, abundant here

(1) var. *micronulata* (Michx.) Tuckerm.
(Det. by F. J. Hermann 9-18-38) e

5559 *Desmodium illinoense* Darl.
(1) Road side in woods just ditto
north of rail road on Shenandoah
valley road below Beverly Mill.
full bloom. e

5560 *Echinochloa crus-galli*
(2) Roadside near # 5559: abundant, ditto
var. *mutis* (Pursh) Peterson. e

5561 *Leersia virginica* Willd.
(2) Bank in woods on roadside ditto
near # 5559 e

5562 *Panicum polyanthes* Schult.
(3) On roadside bank near # 5559 ditto
e

5563 *Leersia angustata* (L.) Sm.
(1) In low, open, not shot by ditto
roadside a few hundred yards
north of railroad on valley road. e

5564 *Desmodium illinoense* Darl.
(3) In old field where black walnut ditto
tree stood and old chimney - it
1/4 mile N. of railroad below Beverly on
valley road. e

Ipomoea purpurea (L.) Lam. Bull Run Mt., Va
In old field with tangier Co
#5564 around Sept. 11, 1938
old house site where H.A. Allard
black walnut tree stood; much
Lycium here.

5566 *Amerous falcata triloba* Michx.
(2) Several trees in valley road just
south of Berkeley old near railroad
track bed on this dry ridge.

5567 *Antennaria alternifolia* DC
(2) In damp thickets, very abundant
just below Berkeley Mill above
rail road.

5568 *Vitis vulpina cordifolia* Michx.
(2) Leaves very shallow, broad
In damp thickets with #5567 at
rail road below Berkeley Mill.

5569 *Panicum stipitatum* Nash
(15) In small just
west of Thoroughfare Gap near where #55
highway turns on dirt detour, ie

5570 *Helianthus annuus* L.
(1) On filled in land on New Jersey
bluffs below New York; area.
Coll. by C.W. Bacon, V.S.D.A.
Sept 1938 (Appears to represent
a mild many headed form)

5571 Lichen
(1) on shales of west
slope, at end of road
turning off Highway #11
at Pugh's Run
Three Top Mountain, Va
Massanutten Range
north of Woodstock
Shenandoah Co.,
from Pugh's Run
Sept 18, 1938
H.A. Allard.

Lichen
on shale cliffs
with #5571
5572 (slope a very steep)
" (near slides)
Three Top Mt., Va
Shenandoah Co
North of Woodstock
at end of road at
Pugh's Run
Sept. 18, 1938
H.A. Allard,

5573 Lichen
Same locality with #5571 ditto
(1) (on shale cliffs)

5574a = *C. verticillata* (Hoffm.) Schaer. (indefinite in form)
5574d = same as 5574.

5574 *Cladonia subcariosa* S. exoluta Wain.
(1) on shale slope in woods ditto
of west slope, cups with
5574a = *C. verticillata* S. exoluta (Th. Fr.) Steiner
5574b = same as 5574.
5574c = *C. verticillata* subsp. *aggregata* (Det.) Alis.

5575 *Cladonia* - cup formed ditto
on shale slope in thin
woods near #5574
cups with squamules.

5576 *Cetraria islandica* L. Ach. e ditto
(1) on shale ridge in thin
woods west slope - near #5575
+ mosses.

5577 Moss
(1) On shales, on crest of
ridges in thin thickets - ditto
of Red oak, *Solidago* *botry*, *Robinia*

5578 *Amerous velutina* Lam.
(18) Leaves deeply lobed and lobes
margin, resembling red oak, but
much more pubescent beneath; awns
typically black. One good before we
got to farm where we parked car - all from
individual tree A.

Quercus marilandica
velutina Lam.
on shale ridge -
on ridge just north of
5579 farm house where we
hiked, in dry sterile shale pasture
(18) with low slope;
Time Top Mt. Va.
Massanutten Range,
Shenandoah Co
Sept. 18, 1938
H.A. Allard

5580 *Eragrostis*

(1) Roadside near # 5578
(Green panicles)
Panicum capillare L

ditto

5581 *Polygonum tenue* Michx.

(13) On shales with # 5579; same
locality; abundant here

ditto

5582 *Amaranthus*
gracilis L

(13) In door yard of farm
house; prostrate; abundant;
Shenandoah Co, Va.
Sept. 18, 1938
H.A. Allard

5583 *Kuhnia eupatorioides* L

(4) Near bridge on Pugh's Run just north of
just off U.S. highway #11 and just off U.S. highway
also abundant on Massanutten #11, on limestone
shales of Signal Knob, Three Top Mt. Va.
Sept. 18, 1938
H.A. Allard

5584 *Hypericum*
gentianoides L. BSP.

(3) on shales with # 5579 and # 5581
very abundant in this pasture

ditto

5585 *Trichostema dichotomum* L

(17) In same locality together
(17) with # 5581; very abundant here
on a thin, heavily wooded shale
slope in pasture.

ditto

Scaevola brachiatra (L.) Massanutten Range,
Three Top Mountain, Va.
on shale ridge
just east of Three Top Mt.; Shenandoah Co
Sept. 18, 1938
H.A. Allard
5586 next slope near
(16) where we hiked at
end of Pugh's Run; abundant; full
bloom.

5587 *Empetrum nigrum* L.

(2) Low plant very brown hairy; is
it var. *villifolium* Ternald,

ditto

Growing with # 5581;

5588 *Gnaphalium obtusifolium* L

(3) Growing with # 5581; abundant; full
bloom.

ditto

5589 *Quercus marilandica* Muench

(2) Growing in shale pasture
with # 5581

ditto

5590 *Paronychia fastigiata* (Raf.) Fern

(1) var. *pinnata* (Wood.) Fern.

ditto

On shales with # 5586
abundant; full bloom; style long

5591 *Aristida dichotoma* Michx.

(1) Growing with # 5585

ditto

5592 *Houstonia* Nutt

(2) Growing with # 5585;
abundant; full bloom; passing
Houstonia tenuifolia Nutt.

ditto

Solidago bootii Hook Massanutten Range,
var. Three Top Mountain, Va
on steep shales Shenandoah Co
5593 with # 5586: Sept. 18, 1938.
very abundant here H.A. Allard
at top: scarcely any in flower: very
late. on steep shale ridge just east
of foot of slope of Three Top Mt.

5594 *Verbascum phlomoides* L
(3) on Pughs Run just off
U.S. highway # 11, north of Woodstock, Va.
By roadside, a colony in full flower.
Flowers larger, brighter yellow than
those of *Verbascum Thapsus*. Does not agree
5595 well with description in Gray et al.,
however. My first record for Va.

(1) *Chenopodium glaucum* north of Woodstock, Va.
In farm yard Great Valley of Va.,
near Woodstock, e Shenandoah Co
Sept. 18, 1938
growing beside H.A. Allard
5582. Side sharp edged, calyx lobes notched.

(1) *Panicum capillaris* (L.) Nees Three Top Mt. Va
(Has habit of an *Eragrostis*; very Massanutten Range
fine, tenacious) Shenandoah Co
Sept. 22, 1938
on shales, west slope, on
ridge at foot of Pughs Run H.A. Allard
3 miles N.E. of Woodstock, Va.
(2) Just below where we park car, in woods at foot
of shale ridge.
Eragrostis capillaris (L.) Nees. ditto
(green panicles: very tenacious)
growing near # 5596, in thin woods
on shale slope.

5598 Moss
(1) on rocks near crest of Three Top ditto
mountain above shale ridges south
where we park. This in rock slide zone
in heavy woods in ravine.

5599 Moss
(1) Near # 5598: woods. ditto

Moss Three Top Mt., Va
on rocks well up Shenandoah Co
west slope of Three Top Massanutten Range
5600 near boulder slides Sept. 22, 1938
occurs in above shale H.A. Allard.
(1) In woods in shallow, damp ravine.

5601 Liriodendron?
(1) Growing with # 5600 ditto

5602 Moss
(1) Growing on rocks in same ditto
wooded ravine with # 5600

5603 Liriodendron
(1) On rocks near # 5600 ditto

5604 Moss
(1) On rocks near # 5600 ditto

5605 Moss
(1) on rocks with # 5600 ditto

5606 *Solidago bicolor* L (form) e ditto
(1) on shales very steep near
foot of Three Top Mt., where I fell
down slope suffering severe lacerations
of left palm (with Dr. H. J. Herrmann)
abundant, full bloom. A nearly glabrous form)

Solidago ~~laevigata~~ ^{erecta} Pursh Three Top Mt., Va
on steep shale at foot Massanutten Range
of west slope of Three Top Mt., Shenandoah Co
5607 Va. where I fell Sept. 22, 1938
(with Dr. T. J. Hermann H. G. Allard)
(2) abundant beside # 5606; full bloom
: *erecta* according to S. T. Blake 9-28-38.

5608 *Muhlenbergia sfolifera* (Muhl.) Trin. e
" In woods at foot of shale slope ditto
below where I fell

5609 *Helianthus autumnale* L ditto
(3) In flood plain of North Fork of
Shenandoah River, near foot of shale
where I fell, and just east of farm yard
where we parked on Pugh's Run Road.
abundant; full bloom.

5610 *Eupatorium verticillifolium*
(2) In flood plain var. *villcane* Fernald ditto
abundant here; full bloom: all with hairy
stems mostly. High up on rock slides some
are of typical form, i.e. glabrous or glabrate.

5611 *Cuscuta* on *Solidago altissima*
" Growing with # 5609 e ditto
- *C. gomorii* Willd.

5612 *Galium pilosum* Ait e ditto
" On shales (wooded) near
top of shale slope where lilacs
were found, and shale ledges outcrop
3 mi. N.E. of Woodstock: common in
woods.

5613 *Eragrostis capillaris* (L.) Nees.
" On shales at foot of ridge e ditto
near path leading past door yard east,
where we parked.

Rubus laciniatus Willd. Three Top Mt., Va
with fruit, large, Massanutten Range
sweet. Shenandoah Co
5614 In ravine at Sept. 22, 1938
(4) foot of shale slope H. G. Allard
along road way in pasture east of
where we parked. My first acquaintance
with this blackberry. Rare; seemingly
more or less evergreen.

5615 *Calamagrostis purteri* A. Gray
" In rocky woods near top ditto
of main ridge where rock slides
occur. Not common: passing e

5616 *Lespedeza repens* Benth. ditto
(2) at foot of shale slope near
5614: abundant: prostrate, e
covering thin soils in pasture here.

5617 *Digitaria filiformis* (L.) Koel ditto
(3) on shales at foot of slope with
5616: abundant here. e

5618 *Panicum capillare* L ditto
" Growing with # 5617.
Resembles an *Eragrostis* in habit. e
very delicate, ternate.
5618A: *Panicum Philadelphicum* Bernh.

5619 Labiateae.
(2) growing with # 5614 e ditto
Scutellaria ovata Muhl. (Wood) Epl.

5620 *Perilla frutescens* (L.) Britton e ditto
(3) Growing near # 5614:
very abundant in damp thicket wooded
ravine here.

Euphorbia
on slope at foot of
slope in thin woods
5621 near # 5614:
(4) scattered in grass and low herbage
here,
Poinsettia dentata (Michx.) Small e

Three Top Mountain, Va
Massanutten Range,
Shenandoah Co.,
Sept. 22, 1938
H.G. Allard.

5622 *Acalypha virginica* L.
(2) Growing with # 5621 e

5623 *Solidago bootii* Hook
(2) all over steep slopes
at foot of Three Top Mountain just
east of farm house where we park,
3 miles N.E. of Woodstock, Va.
5624 abundant; just in bloom.

(3) *Artemisia annua* L. ditto e
growing along North Fork of Shenandoah
on flood plain with # 5609: abundant:
full bloom here.

5625 *Lepidogon sericea*
(3) In old field on
highway # 55: scattered; full bloom.
(introduced) = *L. curvata* D. Don.
Near Red Oak Mt., Va
Fauquier Co.,
Sept. 22, 1938 e
H.G. Allard.

5626 *Helianthus angustifolius* L.
(6) (full bloom)
My first record for Va.
Near Merrifield, Va
Fairfax Co.,
Daisy shot by roadside

5627 *Vitis bicolor* Salente
(3) on rock slide
near top of Three Top,
west slope, abundant.
first with bloom, pleasant.
Three Top Mt., Va
Massanutten Range
Shenandoah Co.
Sept. 22, 1938
H.G. Allard.

Bidens aristosa
anus downwardly, parked
by roadside on Triassic,
5628 very showy: passing
(5) var. *fitcheyi* Ternald, e

Bull Run Mt., Va
Loudoun Co.,
near Chantilly, Va
Sept. 25, 1938
H.G. Allard.

5629 *Pilea pumila* (L.) G. Gray. ditto
(3) In woods back of
John Gaspin's home, N.E. of Round Knob.
Heavy woods on west slope.
abundant: full bloom etc, e

5630 *Elephantopus carolinianus* Willd. ditto
(4) In moist woods with # 5629
(5) Full bloom: abundant here. e

5631 *Galinsoga passiflora*
(5) var. *ciliata* (Raf.) Blake ditto
In old field near barn of
John Gaspin: abundant: full bloom. e

5632 *Amyclia polygonoides* Raf. ditto
(1) Growing with # 5629 in
open in woods: abundant,
passing e

5633 *Muhlenbergia subulifera* (Muhl.) Trin. ditto
(3) In woods near # 5630. e

5634 *Lepidogon stipularia* Moench. ditto
(3) In old field on east slope and
in valley east of Gaspin's ridge
between easternmost of Gaspin's Ridge.
very abundant. e

Lespedeza striata (Thunb.) H & A Bull Run Mt., Va
Fauquier Co
Sept. 25, 1938
H. A. Allard
5635 In valley between
Gaskins' ridge and
easternmost ridge.
directly east of Gaskins'. in waste ground,
abundant covering ground.

5636 *Solidago altissima* L ditto
(3) In old field near # 5635.
abundant; full bloom.
6 ft tall or more.

5637 *Lesseria angustoides* (L.) Sm. ditto
(3) And brook in valley beyond
(east) of Gaskins' place; i.e. between
his ridge and the high easternmost ridge.
abundant here; a tangle of decumbent
stems.

5638 *Carpinus caroliniana* Walt ditto
(1) In swampy woods between
Gaskins' ridge and easternmost ridge -
directly east from his home 6 miles S. of Albé.

5639 *Meibomia dillenii* Barb ditto
(1) In *Desmodium*
same swamp with # 5638

5640 *Muhlenbergia ~~capillaris~~ tenuiflora* (L.) Link ditto
(2) In old field near beyond and east
of # 5638, near giant white oak tree
where we ate lunch. Dense stands
here. = *M. schreberi* var. *palustris* (Scribn.) Scribn.

5641 *Eupatorium coelestinum* L. ditto
(3) In low ground meadow in
valley just south of # 5638 on edge
of woods. Abundant; fl. rich violet,
very showy.

Dryopteris ~~christiana~~ ~~christiana~~ Bull Run Mt., Va
Fauquier Co
Sept. 25, 1938
H. A. Allard
5642 In swamp just beyond
swamp where # 5641 grew.
= *D. goldiana* (Hook.) Max

5643 *Agrostis perennans* (Walt.) Tuckerm ditto
(1) In woods near sandpiper
heap just bordering swamp
where # 5641 grew; scattered.

5644 *Quercus coccinea* Michx. ditto
(4) In small woods near
5642, in small isolated
grove in pasture here.
Acorns shedding now.

5645 *Quercus prinus* L. ditto
(3) Growing beside # 5644.
Most abundant oak in area.
Acorns shedding now.

5646 *Pinus pungens* Lamb. ditto
(3) at top of ridge. Three Top Mt., Va
Massanutten Range,
beyond shale ridges. Shenandoah Co
Sept 22, 1938
Large tree. H. A. Allard
(This out of date order by mistake)

5647 *Aster cordifolius* L. ditto
(3) On damp bank along North Fork
of Shenandoah N. of where we parked at
end of Pughs Run Road. Abundant; full
bloom; (rays blue) Hemlocks abundant here.
(Near old summer cabins)

5648 *Agrostis* ditto
(1) Growing on west slope near
5647, in old road.
Agrostis perennans (Walt.) Tuck.

Cladonia (branched) + moss
On soil on rocks
5649 near top, west slope.
Three Top Mountain, Va.
Massanutten Range,
Shepherdstown Co.
Oct. 2, 1938
H.A. Allard.

5650 *Solidago rostrata* Hook
(9) on steep shale hill
at foot of Pugh's Run road
off U.S. 211. Abundant on
barren shale hill. Passing Ridge
3 miles N.E. of Woodstock.
ditto
Oct. 6, 1938

5651 *Vitis cordifolia* Michx.
(5) on shale by roadside near
where we parked car. 3 miles
N.E. of Woodstock. Fruit black. ditto
shimmering, very acid at
end of Pugh's Run road
near farm house.

5652 *Solidago bicolor* L
(3) on shale (steep part) with
5650; abundant; rays cream
full bloom. ditto

5653 *Liatris scariosa* Willd.
(2) on shale near edge of woods
at flatter portion above steep
slopes where woods begin; full bloom;
not abundant. ditto

5654 *Celastrus scandens* L
(4) On top of rocky ridge
3 miles N.E. of Woodstock. Abundant;
full fruit; leaves yellowing, falling. ditto

5655 *Solidago caesia* L
(5) Growing with # 5654
full bloom, very beautiful, fresh;
one of our latest golden rods;
abundant ditto

America coccinea Wang.
Growing on west slope 3 miles
N.E. of Woodstock, abundant.
5656 This very small, long fruit before.
(5)
Three Top Mt., Va.
Massanutten Range,
Shepherdstown Co.
Oct. 2, 1938
H.A. Allard.

5657 *Solidago bicolor* L
(1) Road side, Hagerell Gap
just west of Antioch, Va.
full bloom; abundant.
Bull Run Mt., Va.
Prince William Co.
Oct. 5, 1938.
Hagerell Gap.
H.A. Allard.

5658 *Panicum philadelphicum* Bernh.
(1) In ^{cut} corn field
just south of Mrs. Cox's house,
west slope, north of Hagerell Gap.
Nearly mature. ditto

5659 *Aristida oligantha* Michx.
(1) Roadside below High Point (west)
on west slope: abundant;
(mistaken cast) ditto
Fauquier Co.

5660 *Panicum guthriei* Nash
(1) In corn field with # 5658
(abundant last year; common this
year in same field). ditto
mature; heads falling. Fauquier Co.

5661 *Acalypha gracilens* L
(1) Growing in old corn field (of 1937)
near stream & road just below (west)
of White Rocks: Very abundant;
seeds black, smooth. ditto
Fauquier Co.

5662 *Panicum philadelphicum* Bernh.
(2) Growing beside # 5661,
very abundant in this old
cornfield. ditto
Fauquier Co.

Aster purpureus L

Bull Run Mt., Va
Fauquier Co.
North of Hopewell Gap, Va
Oct. 5, 1938
H.A. Allard

1. rays bright blue
5663 By roadside at stream
and bridge below White Rocks.
(3) when car was parked.
very abundant, showy
(leaves toothed) bracts loose

5664 *Solidago altissima*
var. *missouriensis* Mill. Ditto
(1) near Harris place east
in valley by old cherry tree.
abundant; full bloom

5665 *Prenanthes serotina* Pursh
(2) along road just
north of Hopewell Gap, in
interior valley road to Mrs. Ashby's.
full bloom; common.

5666 *Solidago graminifolia*
var. *multiflora* (Greene) Fernald
(2) var. *multiflora* var. *multiflora* Ditto
In old field near Allen's house
west of Ashby's place, north of Hopewell Gap,
where infertiles lived.
abundant; full bloom.

5667 *Eupatorium hyssopifolium* L
(1) In same field with # 5666
abundant here; full bloom.
Rare elsewhere in Bull Run, Prince William Co.

5668 *Panicum claudatum* L
(1) Near # 5667 - south of Allen's
house (colored) in old field.
ditto
Prince William Co.

5669 *Asplenium*
~~*Polygonum*~~ *filiforme* L. (Kudzu)
(3) In old field just west of
Allen's cabin near
Chestnut Tree Spring.
abundant.

Aristida dichotoma Mill. Bull Run Mt., Va
dry. Prince William Co.
In old field near
Oct. 5, 1938
H.A. Allard.

5670 *Allyria caryocarpus* -
(2) with # 5669.
very abundant in
thin soil; moist, purplish
cast.

5671 *Panicum agrostoides* Spreng. ditto
(1) abundant - nearly past -
in moist spot just south of
Allen's cabin - near # 5670

5672 *Eragrostis pectinacea* (Michx.) Nees
(1) In old field near
5670; abundant;
now showing purplish.

5673 *Prenanthes trifoliata*
var. *serotina* Pursh. ditto
(1) Roadside west of deep cut
west of Antioch & mile on Hopewell Gap
road; full bloom.

5674 *Bidens vulgata* Greene
(1) In moist soil by roadside
beside # 5673.
abundant.

5675 *Limonium*
(1) In old field near
5670.
abundant; past flower.
Cathartolimon virginianum (L.) Reichenb.

5676 *Panicum*
(1) Roadside opposite
Castell's
= *P. dichotomiflorum* Michx. Bull Run Mt., Va
Fauquier Co.
Hopewell Gap, Va.
Oct. 9, 1938
H.A. Allard.

Panicum capillare L. Bull. Run Mt., Va.
Fauquier Co.
In open near
Castillo's quarry at H.G. Allard
5677 Haperell Gap
(purple panicles)
Oct. 9, 1938

5678 *Eupatorium aromaticum* L. ditto
Edge of woods at upper edge of high
moor edge field near Small's Oak.
Smith of Haperell Gap.
a colony here: full bloom.

5679 *Eupatorium altissimum* L. ditto
(2) woods of west slope below
High Point. Full bloom

5680 *Eragrostis capillaris* (L.) Nees. ditto
(3) open ground near Castillo's
quarry (flagstone) - ie with # 5677.
abundant: purple panicles.

5681 *Erechtites hieracifolia* (L.) Raf. ditto
(1) abundant near above quarry
- ie near # 5677: full bloom,
and covered with silvery hairs also.
very common.

5682 *Aster patens* Nutt. ditto
(1) woods below High Point -
near # 5679.
abundant: full bloom: beautiful
blue flowers on all ridges.

5683 *Gentiana villosa* L. ditto
(2) woods below High Point
near # 5679.
full bloom: corolla greenish.

Aster undulatus L. Bull. Run Mt., Va.
Fauquier Co.
rays blue -
In thicket of old Smith of Haperell Gap
5684 field below
High Point; abundant. H.G. Allard.
Oct. 9, 1938
(2)

Physalis ipocarpa Brot. ditto
5685 In same waste field with
(2) # 5684: abundant: fruit
agreeable in flavor
(Ident by C. V. Morton)

5686 *Aster paniculatus* Lam. ditto
(3) roadside near Castillo's
abundant: full bloom; rays
pale blue.

5687 *Muhlenbergia schreberi* Griseb. ditto
(2) In damp small (open)
- ie *Lechisia angustifolia* smooth
grass - ie near old Black Walnut
tree just west of Haperell - Broad Run
Station highway: abundant.

5688 *Pinus rigida* forma *globosa* Allard ditto
(1) In old field south of Haperell Gap.
See Hottel. I have named this
forma *globosa*. A very beautiful
evergreening, rounded
tree.

5689 *Aster puniceus* L. ditto
(1) open low ground near # 5688
very abundant: full bloom.

5690 *Aster lateriflorus* (L.) Britton ditto
(3) In old field just south of
Haperell Gap near old Riley Cabin.
rays reddish purplish: abundant.

Eupatorium aromaticum L. Bull Run Mt. Va.
Fauquier Co.
Edge of woods
at upper limit
5691 of high brown edge, South of Hopewell Gap.
(3) near small oak field
a large colony here: full bloom.

5692 *Solidago ulmifolia* Michx.
in woods near # 5691 ditto
full bloom.

5693 *Lespedeza virginica* (L.) Britton
(1) In high brown edge field ditto
beyond Riley cabin (1937)
abundant in three stands of
A. scoparium here.

5694 *Lespedeza procumbens* (L.) Britton
(1) Growing in same brown edge field with # 5693. ditto
scattered here: less abundant
than # 5693 as grass is taller.

5695 *Panicum gottengeri* Nash.
(1) In high brown edge field near # 5693 where
thin stand of *Andropogon scoparium*.

5696 *Andropogon scoparium* Michx.
(3) In old field near where
Riley's lived 1937. (beyond Costello's.) ditto

5697 *Aster pilosus* var. *demotus* Blake
(2) In Costello's old field planted
1936 - where timber is
Full bloom: very abundant.

Aster paniculatus Lam. Bull Run Mt. Va.
Fauquier Co.
In Costello's old field
near # 5697: abundant. Oct. 9, 1938
5698 full bloom. Smith of Hopewell Gap.
(1)

5699 *Aster lateriflorus* (L.) Britton
(2) In old field near Riley's cabin (1937): abundant here.
full bloom: rays reddish pinkish.

5700 *Aster paniculatus* Lam.
(3) By roadside between
Costello's & Omer's properties.
rays bluish: full bloom.

5701 *Aster pilosus* var. *demotus* Blake ditto
(1) Growing near # 5699.
Very abundant.

5702 *Aster paniculatus* Lam.
(1) By roadside near # 5700 ditto

5703 *Digitaria inchaurremii* (Schreb.) Michx.
(1) In roadway descending
past Costello's flagstone quarry.
Spikes very little prominent.

5704 *Vitis cordifolia* Michx.
(2) On cliffs of High Point: ditto
abundant: full bloom
fruit black without bloom, very acid.
leaves broad.

#5606-#5707 collected Oct. 13, 1938 at Bull Run Mt., Va.

Vitis californica Michx. Bull Run Mt., Va.
woods below High Point, Tranquien Co.
near Hagerell Gap. Smith of Hagerell Gap.
5705 Broad Run Sta. Highway H.A. Allard
fruit black with brown agreeable. Oct. 9, 1938

5706 *Solidago bicolor* L. with deep yellow rays. This plant appeared in a progeny from a normal cream-rayed plant collected at Big Cabbler Mt., Tranquien Co., Va. 1937. seed sowed in flat outside 11-15-37. To cool house 12-15-37. By 1-12-38. To trough 3-15-38. To bank 4-15-38. Pollen 9-22-38. at 28 in.

5707 *Solidago bicolor* L. with typical cream-colored rays. Sister plant in same progeny with #5706. and growing in field first transplanted May 25, 1938. Pollen 9-22-38. This plant from Big Cabbler is designated as A. L.

5708 *Solidago bicolor* L. with yellow rays. appearing in a progeny of a normal cream-rayed plant of *S. bicolor* designated as B. found on Big Cabbler Hill of 1937. Sowed in flat, with frame 11-15-37. To cool house 12-15-37. By 1-12-38. To hail & tests 5-4-38. This was 14 hours dry. Pollen 8-29-38. when together 2 in. across. Both parents A & B found on Big Cabbler at 23 1/2 in. Normal *S. bicolor* kept in ray color. Collected Oct. 13, 1938 by H.A. Allard.

5709 a cream-rayed plant of *S. bicolor* appearing in a progeny from a plant (B) found on Big Cabbler 1937. Sowed as for #5708. This plant (#5709) a sister plant to #5708. This a control. Pollen 9-22-38 at 28 in. Collected Oct. 13, 1938 by H.A. Allard.

5710 *Solidago bicolor* L. rays white. on crest of mt. along paths, and down road west of Marshall, Va. on west slope; abundant. Oct. 10, 1938 H.A. Allard.

5711 *Solidago bicolor* L. a form (rays yellow) abundant with #5710 on top of same road on west slope, often intermingled closely. should be recognized as distinct from true *bicolor*.

Mass on outcropping granitic ledges of west slope. Big Cabbler Mt., Va. Tranquien Co. west of Marshall. Oct. 16, 1938. H.A. Allard.

5712
5713 *Solidago squarrosa* Muhl. ditto on top along road. Occasional; full bloom. Not found below top in heavy woods.

5714 *Eupatorium alticaefolium* Reid ditto on wooded slope well up and on top; abundant; full bloom.

5715 *Chrysanthemum leucanthemum* var. *hayanatibidum* M. & G. Bull Run Mt., Va. Tranquien Co. in Castell's field near Hagerell Gap. Stone under site. a tiny seedling plant 3 1/2 in. tall, with head scarcely 1/2 in. across, 5-6 diminutive rays; leaves very tiny; old full-sized plants numerous in flower; also many (but best yellow).

5716 *Cladonia* (red heads) on soil on Castell's quarry ridge in chestnut oak woods - some *Prunus virginiana* abundant. = *C. cristatella* f. *vestita* Tuck. Bull Run Mt., Va. Tranquien Co. Dec. 11, 1938. Smith of Hagerell Gap. H.A. Allard.

5717 *Cladonia mitrula* f. *imbricatula* (Nyl.) Nyl. ditto (cream-colored heads) on soil with #5716.

5718 *Cladonia* sp. ditto on soil with #5716 (sterile, not determinable).

Cladonia strepsilis (Ach.) Nais
fine foliose type as in *C. apodocarpa*
but finer; abundant

5719 On soil on Castell's quarry
abundant on bare banks. ridge.
Dec. 11, 1938
H. A. Allard

5719 a. In thin chestnut oak woods
with some pine; dry, exposed, years ago;
much naked sandy soil
Cladonia caespiticia (Pers.) T. Loebl
Cladonia

5720 ditto
(1) same loc. with #5719

= *C. cristatella* f. *Beauvoisii* (Del.) Nais,
+ *C. vestita* Tuck.

5721 *Cladonia*
(1) Growing with #5719 ditto

5722 *Cladonia*
(1) In same loc. with #5719 ditto
= *C. pleurota* (T. Loebl) Schaer.

5723 Lichens
(1) On cliffs of Castell's quarry ridge;
on rock surfaces; fine black dots
abundant. ditto

5724 Lichens = *Umbilicaria caroliniana* Tuck
(1) Black spots as above on
Umbilicaria pustulata; same
type spots as 5723: on same cliffs
5725C = *Polypodium juniperinum* Willd.

5725 *Cladonia cristatella* f. *vestita* Tuck.
(1) Red apothecia with very
squamulose stipes. ditto
Growing with #5719 on soil
5725a in moss *Polypodium*
5725b = *C. pleurota* (T. Loebl) Schaer, probably.

Lichen:
on rocks - a prominent species
in circular mass; color dark
olive green; easily
detached; thin soil
(1) beneath.

5726 = *Anaptychia aquila* (Ach.) Mass.

5727 *Cladonia*
5727B = *Leucobryum glaucum* (L.) Schimp.
(1) On soil of Castell's quarry
ridge; abundant in chestnut oak

5727a = *C. macilenta* f. *styracella* (Ach.) Nais.
5727b = *C. chlorophaea* (T. Loebl) Spreng.
5727c = *C. pleurota* (T. Loebl) Schaer.

5728 Lichen
(1) *Cladonia cristatella* f. *Beauvoisii* (Del.) Nais
on soil with #5727 and *C. vestita* Tuck. ditto

5729 *Cladonia caespiticia* (Pers.) T. Loebl
(1) On soil with #5727. ditto

5730 *Cladonia pleurota* (T. Loebl) Schaer.
(1) On soil with 5727 but not very distinctive.
radial like moss with it?

5730a = *C. cristatella* Tuck.

5731 *Cladonia*
(1) On soil with #5727 ditto
among moss. *Polypodium* =

5732 *Cladonia strepsilis* (Ach.) Nais.
(1) On soil near #5727 ditto
Tiny irregular foliose growths
like *apodocarpa* with peripheral brown apothecia

Bull Run Mt. Va
Fauquier Co
South of Hagerell Gap
on crest of Castell's quarry
ridge. 12-11-38
H. A. Allard

- # *Cladonia*
On soil on Castilla's quarry
at top of old field bare ridge
5733 rock cracks stood -
& where spring is.
|| In dry chestnut oak woods
- *C. macilenta* f. *striatella* (Ach.) var. n. *5733A = C. pleurota* (Thöerke) Schaer.
5734 *Cladonia*
heads light cream
|| on soil with # 5733
- *C. mitrula* f. *imbricatula* (Nyl.) var. n.
5735 *Cladonia streptilis* (Ach.) var. n.
|| on soil with # 5733
(Similar to *C. afodocarpa*; finer
abundant here.)
5736 *Cladonia macilenta* f. *striatella* (Ach.) var. n.
|| on soil with # 5733
5736a = *C. pleurota* (Thöerke) Schaer.
5737 *Cladonia caespiticia* (Pers.) Thöerke
|| on soil with # 5733
5738 *Cladonia streptilis* (Ach.) var. n.
|| on soil with 5733
Dense, finer than *C. afodocarpa*;
olive green.
covers considerable areas of bare soil.
5739 Lichen
|| On rock surfaces as small
black cups
abundant on Castilla's quarry cliffs
near # 5733

Bull Run Mt., Va

Tangier Co.

Dec. 11, 1938

H.A. Allard

On Castilla's quarry ridge

just S. of Hufschall Gap.

5733B = *Picramnia*

scotarium (L.) Hedw.

- Lichen,
Near foot of cliffs near
slope; color fresh lead gray
with pinkish cast
around edge; close
circles on rocks.
abundant.
5740
||
5741 Lichen
(small black dots on rocks)
|| (On cliffs at end of High Point)
abundant.
5742 = *Cladonia caespiticia* (Pers.) Thöerke
|| On brickwork bark on tree
on Castilla's quarry ridge
5742A = *Physcia leana* (Tuck.)
5742B = " *adglutinata* (Thöerke) Tuck.
5743 Lichen = *Parmelia rudecta* Ach.
|| On same tree with # 5742
5742C = *Caloplaca microphylla* (Tuck.) Hasse
5742D = *Physcia estroied* (Clem.) Nyl
5742E = " *endochrysea* (Hampe.) Nyl.
5742F = " *stellaria* (L.) Nyl.
5744 Lichen
|| On same tree with # 5742
= *Caloplaca microphylla* (Tuck.) Hasse
5745 Tiny green mass
|| in small crevices on cliff
of Castilla's quarry ridge.
Very deep green in soil
= *Gymnostomum rupestre* Schleich.
5746 Lichen
|| On same tree with 5742
= *Cladonia caespiticia* (Pers.) Thöerke

Bull Run Mt., Va

Tangier Co.

High Point cliffs

Dec. 11, 1938.

H.A. Allard.

5747

$$5747A =$$

ditto

dittv

dittv

dittv

ditt.

5754

ditto

ditto

7

Umbilicaria pustulata Bull Run Mt., Va
On Castello's quarry cliffs: Tangier Co
abundant throughout Smith of Hoperell Gap.
5761 on all cliffs ~~on rocks on~~ Dec. 11, 1938
|| of Bull Run. On Castello's H.A. Allard

5762 Mass
|| Light yellowish green ditto
On soil on Castello's quarry
ridge in chestnut oak woods.
abundant here etc

5763 Lichenwort ditto
|| On sloping rock surface
with thin soil, forming extensive
mats on rocks with lichens etc
Has succeeded there; washed off
portions of mat on ground also.

5764 Mass ditto
|| Hyphnum - fern like: yellowish green.
On flat rocks on thin black soil layer
at High Point: full of lichens
making mats in rocks.

5765 Parella ditto
|| (Lichenwort)
Dark reddish brown mats easily
lifting: slight soil beneath - on flat rocks
at foot of High Point cliffs: abundant.
Full of lichen succulents.)

5766 Mass ditto
|| (Light yellowish green)
On soil with # 5762
abundant in banks, or where soil
accumulated on rocks etc.

5767 Mass ditto
|| Polytichum (dark green)
On soil in chestnut oak
woods near # 5762:
abundant.

Mass. Bull Run Mt., Va
On flat rocks forming Dec. 11, 1938
dense mats of pure H.A. Allard
5768 growth: slight soil Tangier Co
|| beneath. On rocks
of Castello's Quarry Ridge.
(abundant) (Full of lichens)
Color rather yellowish green.)

5769 Cladonia ditto
|| (Periderm, + mass)
Polytrichum
growing in chestnut oak woods
on Castello's Quarry ridge.
on soil: abundant.

5770 Mass ditto
|| Completely encircling base of a
small tree with its mat and
just above the dense deciduous leaf mat
which it cannot grow in. On Castello's Ridge
where it joins slope of High Point ridge south.

5771 Lichenwort ditto
|| On rock surface (flat) near
5770 on same ridge near
High Point ridge.

5772 C = *Cladonia verticillata* (Hoffm.) Schaer (young plants) ditto
5772b = *C. chlorophaea* (Flörke) Spreng, but *rudecta*
5772 Cladonia (red apothecia) more slender than usual.

|| (Mass) = *C. cristatella* Turb. The sterile ditto
5772a On soil near # 5769 something like: don't find
5772d = *Polytichum juniperinum* Willd.
all abundant here
= *C. cristatella* f. *cyphophyllifera* Sandst. P.S. Beauvoisii

5773 Lichen on sandstone Bull Run Mt., Va
|| rocks. Tangier Co
On High Point ridge outcrop. Dec. 18, 1938
Cladonia caespiticia (Pers.) Thell. H.A. Allard.
of Hoperell Gap.
probably.

5774 Lichen several species ditto
|| On sandstone rocks
on High Point ridge
with # 5773

Lichens
several species of distinct
on sandstone oaks
5775 ~~some~~ interlacing
on Castell's quarry
ridge

Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Haperell Gap.

Lichens
5776 On rocks (sandstone)
|| on outcrops on Castell's quarry
ridge ditto

5777 *Cladonia furcata* f. *cylichnoides* Evans
On vertical rock faces (sandstone)
|| in heavy oak - distinct woods, far
along on High Point ridge outcrops.
Grows in pure colonies and so closely
attached to rocks is very difficult to remove.
(ident. by Evans) my first record here.

5778 *Cladonia neomyxa* (Ach.) Nyl.
|| on sandstone rock faces on
Castell's quarry ridge. ditto
perhaps
but
doubtful.

5779 Moss = *Dicranum flexum* Hook
|| growing in gulleries on
sandstone outcrops on Castell's
quarry ridge ditto

5780 *Cladonia cristatella* f. *beamsisii* Del. v. *vestita* Trunk.
|| In old woods edge field
N. of old mansion at foot of
High Point Ridge, west slope.
between the clumps.
(apothecia red) ditto

5781 *Cladonia piedmontensis* Merr. perhaps
|| Growing with # 5780
between clumps. ditto
5781a = *C. subcariosa* Nyl.

Cladonia piedmontensis
Growing in same
woods edge field
5782 with # 5780 (between
|| clumps
5782a = *C. subcariosa* Nyl.

Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Haperell Gap.
H.A. (v. *vestita*) Robbins

5783 *Cladonia subcariosa* f. *evoluta* Del. v. *vestita* Trunk.
(brown apothecia) and f. *squamulosa* Robbins
|| Growing with # 5780
between woods edge clumps.

5784 *Cladonia cristatella* f. *beamsisii* Del. v. *vestita* Trunk.
|| with # 5780 - between
clumps and on dead stems
of old clumps that have died
(apothecia red) ditto

5785 *Cladonia verticillata* (mostly) f. *aggregata* Del. v. *vestita* Trunk.
|| (on soil)
with # 5780 on soil
between clumps. ditto

5786 *Cladonia verticillata* f. *evoluta* Del. v. *vestita* Trunk.
|| with # 5780, between
clumps. ditto

5787 *Cladonia cristatella* f. *beamsisii* Del. v. *vestita* Trunk.
|| with # 5780 between
clumps in old woods edge
field. ditto
(apothecia red; podetia
very squamulose)

5788 *Cladonia cristatella* f. *ochroleuca* Trunk.
|| (apothecia cream colored; podetia
few red) freshly young
with # 5780 between clumps. ditto

Cladonia subcariosa f. *evoluta* Bull. Rem Mt., Va.
in old browned edge field ^{near} Franquier Cr
N. of old mansion
5789 in woods, near slope Dec. 18, 1938
below High Point. H.A. Allard
growing in interspaces South of Hagerell Gap.
between clumps
apothecia dark brown or black

5790 *Cladonia cristatella* f. *beauvoisii* (Del.) ^{Wain} ditto
apothecia red, and f. *vestita* Tuck.
with # 5789 between clumps

5791 *Cladonia cristatella* f. *beauvoisii* (Del.) ^{Wain} ditto
with # 5789 between
clumps on soil and on dead
basal stems and leafage of clumps
that have died from overgrowing etc.
5791a = *C. cristatella* f. *vestita* Tuck.

5792 *Cladonia cristatella* f. *scyphulifera* Sand. ditto
(apothecia red) and f. *beauvoisii* (Del.) ^{Wain}
on basal stems etc. as for
5789 and near it
= *scyphulifera*

5793 *Cladonia verticillata* f. *evoluta* (Th. Fr.) ^{Stein} ditto
with # 5789 between
clumps on soil
5793a = *C. cristatella* f. *vestita* Tuck.

5794 Moss
on sandstone rocks ditto
on Castello's quarry ridge

5795 Moss - *Sicuranum flavum* Hook. ditto
in crevice of cliffs of
sandstone in heavy oak-chestnut
woods on Castello's quarry cliffs
near # 5794

Cladonia ? Bull. Rem Mt., Va.
(dark olive green) Franquier Cr
on chestnut oak Dec. 18, 1938
5796 tree bark (lining) H.A. Allard
on Castello's quarry ridge. South of Hagerell Gap.
5796a = *C. caespiticia* (Pers.) Floerke, probably not distinct.
5796 = *Physcia setosa* (Ach.) Nyl.

5797 *Cladonia verticillata* f. *evoluta* (Th. Fr.) ditto
in interspaces in same ^{Stein}
browned edge field with # 5789
on soil
5797a = *C. subcariosa* f. *evoluta* (Th. Fr.) ^{Stein} and
f. *squamulosa* Robbins.

5798 Lichen = *Physcia setosa* (Ach.) Nyl. ditto
(dark gray)
on lining chestnut oak tree bark
on High Point Ridge in heavy
oak-chestnut woods.

5799 Lichen = *Physcia setosa* (Ach.) Nyl. ditto
on bark of chestnut oak
tree lining near # 5798
5799A = *Physcia stellaris* (L.) Nyl.

5800 *Cladonia caespiticia* (Pers.) Floerke ditto
on rocks (sandstone)
on Castello's quarry ridge in
heavy oak-chestnut woods.

5801 Lichen (gray) ditto
on bark of chestnut oak tree
lining near # 5798
= *Pertusaria multipunctata* (Turn.) Nyl.

5802 Moss
Lichen (black) ditto
on sandstone cliff near
5800.

Lichen
On bark of living
chestnut oak tree
5803 on High Point Ridge
(1) crest.

Pertusaria pertusa (L.) Tuck.

Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5804 *Cladonia borbonica* f. *cylindrica* Hoffm.
(1) On outcropping sandstone
cliffs on Castello's quarry ridge

5805 Mass
(1) On sandstone cliffs
interfing with # 5804

5806 Mass = *Dicranum flexuosum* Hook
(1) In crevice on limestone cliff
(sandstone) outcrops on
Castello's quarry ridge

5807 Lichen = *Pertusaria multipunctata* (Turn.) Nyb.
(1) (gray areas)
On bark of chestnut oak trees
on High Point Ridge; one of most
abundant lichens here.

5808 Lichen
(1) On sandstone cliffs
on Castello's quarry ridge.
Black and very common as
circular areas like
a soot or smudge.

5809 Moss
(1) On sandstone rocks on
Castello's quarry ridge near
5808.

Cladonia
In old woods edge field
with # 5789 on soil
5810 and on dead basal
(1) stems of dead
chinquapin
= *C. midmontensis* f. *lepidifera* (Wain.) Roffm.

Bull Run Mt. Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5811 Lichen
(1) On sandstone rocks
on High Point ridge.
(light green; *Parmelia*?)

5812 Lichen = *Dermatocarpon*
(gray) *miniatura*
(1) On flat rocks near
High Point cliffs in
heavy oak-chestnut woods.

5813 *Cladonia* ~~maileta~~ *maileta* Hoffm.
(1) several 5813a = *C. cristatella* f. *scyphulifera*
one red apothecia but not distinctive
one - slender, pointed
on soil on Castello's quarry ridge
in heavy oak-chestnut woods.

5814 *Cladonia streptilis* (Ach.) Wain
(1) (very abundant covering large areas)
On soil in thin, open oak woods
on road near Antioch, Va., on
Triassic area

5815 Lichen = *Physcia setosa* (Ach.) Nyb.
(1) (gray)
On bark of dead tree
on Castello's quarry ridge
in heavy oak-chestnut woods.

5816 *Cladonia cristatella* f. *vestita* Tuck.
(1) (apothecia, red)
Podetia very squamulose.
on soil with # 5815

Mass
on Castellos quarry
ridge in crevices
5817 on ^{lute}interlocking sandstone
cliffs. in heavy
oak-chestnut woods
= *Gymnostomum rupestre* Schlecht.
Bull Run Mt., Va
Fauquier Co.
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5818 *Cladonia papillaria* S. molariformis (Hoffm.) Schaer.
ditto
on soil in thin oak
woods on Triassic area
near Antioch, Va.
Prince William Co.

5819 *Cladonia bailliana* (Ach.) Nyl.
ditto
on soil in same woods
near #5817

5820 Moss on
sandstone rocks.
near #5817 ditto

5821 Lichen
+ moss
on sandstone cliffs
near #5817 ditto

5822 *Cladonia psoralea* (Pers.) Thörlsch
ditto
on bark of living chestnut tree
on Castello's quarry ridge
near #5817.

5823 Lichen, thin foliose, black.
ditto
on flat rocks near
#5817.
Collema glaucescens Hoffm.

Cladonia
Bull Run Mt., Va
Fauquier Co.
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap.
5824 between clumps.
C. verticillata S. exoluta (Th. Fr.) Steyer
5824a = C. subcariosa Nyl. and
C. cristatella Tuck. (Both scanty.)

5825 *Cladonia*
ditto
on sandstone rock face
Padetia pointed, white; squamulæ
rubbed off.
on rocks (sandstone) on Castello's
quarry ridge near #5817

5826 Lichen (black)
ditto
very common
on rock interstices near
#5817

5827 Lichen = *Physcia setosa* (Ach.) Nyl.
ditto
on bark of chestnut oak
tree in heavy chestnut-oak
woods near #5825
5827a: *Physcia setosa* (Ach.) Nyl.

5828 Moss
ditto
long fern-like fronds; very
beautiful.
on sandstone rocks - on same ridge
near #5825

5829 Moss
ditto
on sandstone rocks
on same ridge with #5825

5830 Moss in rock crevices
ditto
on cliff = *Dicranum planum* Hook
near #5825

5844 ~~Moss~~ Hepaticae
 (1) on bark at base of Tree ditto
 near # 5839
 = Lophocolea heterophylla (Schrad.) Dum.

Cladonia papillaria f. *molariformis* (Hoffm.) Schaer Bull Run Mt., Va
on soil on crest of dry, wooded ridge east of Prince William Co
Dec. 26, 1938
5845 High Point Ridge, H.A. Allard.
|| S. of Hapenell Gap $\frac{1}{2}$ mile
(near # 5838)

5846 *Cladonia papillaria* f. *molariformis* ditto
|| on soil with # 5845 and f. *papillosa* (Hoffm.) Schaer
abundant.

5847 *Cladonia grayi* Mer. young plants. ditto
|| on soil on banks at foot of east slope of High Point Ridge, S. of Hapenell Gap $\frac{1}{2}$ mile in heavy oak-chestnut woods.

5848 *Cladonia papillaria* (Ehrh.) Hoffm. ditto
|| on soil near # 5845
sterile squamules probably of *C. clauilipera* Wain

5849 *Cladonia caespiticia* (Pers.) Floerke ditto
|| on bark on dead log near # 5847

5850 *Cladonia* ditto
|| on soil near # 5845

5851 *Cladonia squamosa* (Scop.) Hoffm. and *C. cristatella* Trich. (a tree)
|| on soil near # 5845
Probably a mixture

Cladonia squamosa (Scop.) Bull Run Mt., Va
On old log Prince William Co
Dec. 26, 1938
5852 near # 5845 H.A. Allard.
|| mixture probably
this but none very distinctive.

5853 *Cladonia macilenta* f. *styracella* (Ach.) Wain. ditto
|| on soil on banks near # 5847

5854 *Cladonia* ditto
|| on soil near # 5845
(very abundant over large areas on bare soil.)

5855 *C. papillaria* f. *molariformis* (Hoffm.) Schaer
|| Mass = *Thelia asprella* (Schimp) Sull. ditto
on bark of living tree at base near # 5847

5856 Mass ditto
|| Very dark green lobes adhering very closely to rock surface (sandstone), near # 5847.
a true rock species, rarely fruiting here.

5857 *Cladonia subcariosa* f. *evoluta* Wain ditto
|| near # 5845

5858 *Cladonia squamosa* (Scop.) Hoffm. ditto
|| on old decaying log decaying near # 5845

Cladonia calycantha Del. Bull Run Mt., Va
on soil in oak-chestnut
woods on east slope of
5859 High Point Ridge Telus Prince William Co.
High Point, $\frac{1}{2}$ mile S. Dec. 26, 1938
of Hagerell Gap nearby. H.A. Allard.
young plants
probably.

5860 *Cladonia papillaria* f. *molariformis* (Hoffm.) Schaer. ditto
|| on dead log near # 5845
very squamulose.

5861 *Cladonia coniocraea* f. *ceratodes* (Laerke) Wain. ditto
|| on soil on ridge near
5845

5862 *Cladonia maileuta* f. *styracella* (Ach.) Wain. ditto
|| on soil near # 5845

5863 *Cladonia* ditto
|| on soil near # 5845

5864 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
|| on soil near # 5845

5865 *Cladonia* ditto
|| on soil near # 5859

Cladonia strepsilis (Ach.) Wain. Bull Run Mt., Va
on soil near Prince William Co.
Dec. 26, 1938
5866 # 5845 H.A. Allard.
||

5867 *Cladonia* ditto
|| on soil with # 5845
= *C. papillaria* f. *molariformis* (Hoffm.) Schaer

5868 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
|| on east slope near # 5859

5869 *Cladonia pleurota* (Flörke) Schaer. ditto
Near # 5859

5870 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
|| on dead chestnut log with
5845 (same as # 5860)

5871 *Cladonia papillaria* f. *molariformis* (Hoffm.) Schaer. ditto
|| on soil with # 5845
= *C. papillaria* f. *molariformis* (Hoffm.) Schaer

5872 *Cladonia grayi* Mer. ditto
|| on soil near # 5845

- Cladonia. Bull Run Mt., Va
On soil on road side Prince William Co.,
banks at foot of Dec. 26, 1938
5873 High Point Ridge H.A. Allard
|| east slope, $\frac{1}{2}$ mile S. of Hapwell Gap,
in oaks - chestnut woods
= Cladonia strepsilis (Ach.) Vain. = thallus.
The cup is pleurota (Floerke) Schaer.
- 5874 Cladonia
|| On soil in oaks - chestnut woods on dry crest of ridge east of High Point Ridge $\frac{1}{2}$ mile S. of Hapwell Gap.
= C. hapiilaria f. molariformis (Hoffm.) Schaer. (near # 5875)
5875 = Cladonia hapiilaria f. hapiilaria ditto
|| Near # 5875
- 5876 Cladonia piedmontensis f. lepidifera (Müll.) R. Sacc.
|| On dead wood (log) on ridge near # 5875
- 5877 Cladonia strepsilis (Ach.) Vain.
|| On soil near # 5875 ditto
- 5878 Cladonia cristatella Tuck
|| (red apothecia) ditto
on dead wood near # 5875
+ C. squamosa (Scop.) Hoffm.
- 5879 Cladonia caespiticia (Pers.) Floerke
|| On dead wood and humus soil on east slope of High Point Ridge near # 5873
a mixture but largely this.

- Cladonia Bull Run Mt., Va
with moss Polytrichum Prince William Co.,
Dec. 26, 1938
H.A. Allard.
- 5880
|| on soil near # 5874
- 5881 Peltigera horizontalis (Huds.) Barming
|| on soil on rocks near # 5873 ditto
- 5882 Cladonia squamosa (Scop.) Hoffm.
|| On soil near # 5874 ditto
- 5883 Moss
|| On bark of tree on same ridge and near # 5874 ditto
- 5884 Cladonia coniocraea f. truncata (Floerke) Vain.
|| very pointed, with British tips on soil on rocks near # 5874 ditto
- 5885 Cladonia mitrula f. intricatula (Kyl.) Vain.
|| on bare soil on same ridge with # 5874 ditto
- 5886 Cladonia coniocraea f. eratodes (Floerke) Vain.
|| On soil in pine woods on ridge crest with # 5874 ditto mostly.

Moss

at foot of tree
on ridge east of

Bull Run Mt., Va
Prince William Co.

Dec. 26, 1938

H.A. Allard

5887 High Point Bridge
1/1 s. of Hofsell Gap 1/2 mile

in oak-chestnut woods
very dry rocky ridge, an old farm
with little humus.

5888 *Cladonia squamosa* (Scop.) Hoffm. ditto
1/1 on soil near # 5887
not very distinctive.

5889 *Cladonia Lophocolea heterophylla* (Scop.) Th. & M. ditto
1/1 Hepatic Moss
on bark of tree near # 5887
mostly. Bull Run.

5890 *Cladonia* (a) *squamosa* (Scop.) Hoffm. ditto
1/1 on west slope of ridge below
diffs on same ridge near
5887 - on old chestnut log.
same as # 5860 & 5870 (see)

5891 *Cladonia caespiticia* (Pers.) Th. & M. ditto
1/1 on soil near # 5887

5892 *Cladonia*
1/1 (sharp-pointed, whitish tips) ditto
1/1 On bark of decayed
log (same as # 5884).

5893 *Cladonia squamosa* (Scop.) Hoffm. ditto
1/1 on soil on same
ridge with # 5887

Cladonia

on same ridge

Bull Run Mt., Va

Dec. 26, 1938

Prince William Co

H.A. Allard

5894 near # 5887

1/1
= *C. squamosa* (Scop.) Hoffm. but not very
distinctive.

5895 *Cladonia grayi* Mer. ditto
1/1 On same ridge near
5887

5896 *Psoralea rosea* Pers. ditto
1/1 On bare soil on crest of castle
granary ridge near spring; very
abundant in woods & bare areas
of soil here.

5897 *Cladonia coniocraea* f. *ceratodes* (Th. & M.) Kain. ditto
1/1 (sharp pointed apothecia with
whitish tips, same as # 5892)
5897a = *Cladonia mitrula* f. *imbricatula* (Hyl.) Kain.
(young)

5898 *Cladonia*
1/1 (sharp pointed apothecia with
whitish tips (same as # 5892,
5897. = *C. coniocraea* f. *ceratodes* (Th. & M.) Kain.)

5899 Lichen ditto
1/1 Pine colonies of small
black dots on sandstone
rocks. very tiny to
beak dot size of pin head
very abundant on ridge near # 5887

5900 Moss ditto
1/1 on thin soil on flat rocks on east
slope of High Point Ridge in heavy
oak-chestnut woods below High Point.
These mats lift off readily.

Lichen
Peltigera

Bull Run Mt., Va
Prince William Co
Dec. 26, 1938
H.A. Allard.

5901 on east slope of
High Point Ridge
below High Point
on soil in heavy oak - chestnut woods.
(abundant)

5902 Moss
on flat rocks near # 5901. ditto
forming large, pure mats easily
detached, often loosely lifting
up from the rocks; color dark green
(abundant)

5903 Moss
forming extensive mats (this)
on rocks, banks etc. in woods near # 5901. ditto
light yellowish green; abundant

5904 Moss
Polytrichum
on flat rocks near # 5901. ditto
on banks, rotten wood, rocks forming
large, pure colonies; abundant.

5905 Moss *Hypnum*
on flat rocks near # 5901. ditto
abundant on banks etc in woods;
color yellowish green; fronds fern-like.
Very beautiful; abundant.

5906 Moss
Catherinea?
on rocks near # 5901. ditto
color light shining green; leaves delicate.
abundant in damp places, woods etc.

5907 Mosses
Two
on dead wood on old logs
in woods near # 5901. ditto

Moss on dead log
in woods near # 5901

5908 abundant.
||

Bull Run Mt., Va
Prince William Co
Dec. 26, 1938
H.A. Allard.

5909 Moss
on dead stump in woods near # 5908. ditto
||

5910 Moss
on decayed log in woods near # 5901. ditto
||

5911 *Cladonia*
one of reindeer mosses.
on crest of ridge east of High Point
ridge 1/2 mi. S. of Haysville Gap. in
this pine stand here = *P. rigida*,
and *P. muscigena* mostly. ditto
||

5912 *Cladonia rangiferina*
Growing beside # 5911. Not
common in Bull Run Mt.; very
local. on pine duff and bark
soil here. This specimen was found.
(My first record for Bull Run Mt.) ditto
||

5913 *Cladonia*
(reindeer moss)
growing with # 5912
abundant. ditto
||

5914 *Cladonia rangiferina*
Growing with # 5912. ditto
||

Cladonia bailliana (Ach.) Nyl. Bull Run Mt., VA
on rotten wood
on ridge N.E. of Beverly Mill, January 1, 1939
east of valley road
just N. of railroad. Prince William Co.
H.A. Allard

5915 *Cladonia* *grayi* f. *squamulosa* Sandst.
on thin pine stem here. Harker
of Prince. virginiana here. Harker
lived out much bare soil covered with
lichens - *Cladonia*, tiny red *apothecia*
at tip of recurved British scrobiculate podetia

5916 *Cladonia grayi* f. *squamulosa* Sandst.
on soil near # 5915
cupae, very proliferous, very squamulose

5917 *Cladonia cristatella* Tuck.
apothecia red
on soil with # 5915 ditto

5917A: *C. grayi* f. *squamulosa* Sandst.

5918 *Cladonia mailevta* f. *styracella* (Ach.) Wain.
same sh as # 5915.
on old log with it
and *C. conicraea* (Floerke) Sandst. K- and P- ditto

5919 *Cladonia grayi* f. *squamulosa* Sandst.
on soil with # 5915 ditto

5920 *Cladonia cristatella* Tuck.
apothecia red
podetia very squamulose.
on humus soil near # 5915 ditto

5921 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin.
on soil near # 5915

Cladonia grayi Mer.
same cups, very
squamulose.

5922 same with brown apothecia
on soil near # 5915

5923 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin.
same cups, very squamulose
some with brown apothecia
with # 5915
and *C. grayi* f. *squamulosa* Sandst.

5924 *Cladonia squamosa* (Scop.) Hoffm.
but not distinctive. ditto
near # 5915 on soil

5924a: *C. subcariosa* f. *squamulosa* Hoffm.

5925 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin.
same as # 5924
near # 5915 ditto

5926 *Cladonia cristatella* f. *vestita* Tuck.
apothecia red
podetia much branched above
growing near # 5915 ditto

5927 *Cladonia verticillata* f. *phyllocephala* (Plot.) Olin.
apothecia brown
podetia very squamulose
near # 5915 ditto

5927a: *C. cristatella* f. *vestita* Tuck. mostly

5928 *Cladonia*
podetia slender curved at tip
British
near # 5915
mailevta f. *styracella* (Ach.) Wain. ditto

Cladonia strepsilis (Ach.) Wain. Bull Run Mt., Va
on soil
In pine grove on
ridge just N. of mill road Prince William Co
ad. east of valley H.A. Allard
5929 road here - Elm (E of Beverly Mill)
|| apothecia brown; podetia very squamulose

5930 *Cladonia strepsilis* (Ach.) Wain. ditto
|| apothecia brown
(very squamulose)
on soil near # 5929.

5931 *Cladonia verticillata* f. *thylocephala* (Flörke) Olin. ditto
|| very proliferous
apothecia brown
on soil near # 5929

5932 *Cladonia papillaria* f. *stipitata* Thöerke ditto
|| on soil near # 5929

5933 *Cladonia bailliaris* (Ach.) Nyl. P. and *Cladonia* ditto
|| on rotten wood near # 5929
← *conivraea* (Thöerke) Sandz f. P+

5934 *Cladonia mailecta* f. *styracella* (Ach.) Wain. ditto
|| on humus soil near # 5929

5935 *Cladonia strepsilis* (Ach.) Wain. ditto
|| on soil near # 5929.

Cladonia clavulifera Bull Run Mt., Va
on humus soil
near # 5929
5936
||
f. *subvestita* Robbins

5937 *Cladonia clavulifera* f. *indianalis* Evans ditto
|| (apothecia brown)
on soil near # 5929
mostly

5938 *Cladonia subcariosa* Nyl. ditto
|| mostly apodocarpa?
on soil near # 5929

5939 *Cladonia clavulifera* f. *subvestita* Robbins ditto
|| on soil near # 5929
apothecia brown
(podetia very squamulose)
5939A: *C. subcariosa* Nyl.

5940 Moss ditto
|| on dead wood near # 5929

5941 *Cladonia cristatella* f. *vestita* Nyl. ditto
|| apothecia red
podetia (some squamulose)
near # 5929
and f. *beauvoisii* (P.) Wain.

5941A: *C. mailecta* f. *styracella* (Ach.) Wain.

5942 *Cladonia grayi* Mer. ditto
|| on soil near # 5929

Cladonia Bull Run Mt., Va
in pine grove just N. of
railroad bln (E) of
Borerly Mill rd
5943 E of valley road here.
January 1, 1939
Prince William Co
H.A. Allard
(1) on soil
= Cladonia chlorophaea f. lepidophylla (Therke) Sandst (P+)
and C. grayi f. squamulosa Sandst

5944 → Cladonia cristatella f. vestita Tuck. ditto
(1) apothecia red
+ one with cups
5944A, podetia branched above (with red
apothecia)
and C. grayi f. simple Robbins
Near # 5943

5945 Cladonia grayi f. simple Robbins ditto
(1) on humus soil cups
and C. grayi f. squamulosa Sandst.
Near # 5943

5946 Cladonia chlorophaea f. carphophora (Therke) Olin ditto
(1) on humus soil with # 5943

5947 Cladonia verticillata f. phyllocephala (Therke) Olin ditto
(1) verticillata
forma. and a trace of C. grayi Mer.
very squamulose
Near # 5943 on soil

5948 Cladonia grayi Mer. ditto
(1) (cups)
on humus soil near # 5943

5949 Cladonia cristatella f. vestita Tuck. ditto
(1) podetia much branched above
with tiny red apothecia,
squamules also with tiny red
apothecia,
on soil Near # 5943

Cladonia papillaria f. papillaria Bull Run Mt., Va
January 1, 1939
Prince William Co
H.A. Allard
5950 on soil near # 5943
(1) molariformis (Hoffm.) Schaer.
apothecia f. stipitata Therke.

5951 Cladonia verticillata f. phyllocephala (Therke) Olin ditto
(1) verticillata
forma
Growing near # 5943
5951A = C. grayi Mer.
Moss

5952 lichen colored
(1) on dead wood near # 5943 ditto

5953 Cladonia verticillata (Hoffm.) Schaer. ditto
(1) on soil near # 5943
same sp. as # 5951
young plants mostly

5954 Cladonia verticillata f. phyllocephala (Therke) Olin ditto
(1) very squamulose podetia
same sp. as # 5951
growing with # 5943
mostly, Olin.

5955 Cladonia grayi Mer. mostly ditto
(1) same sp. as # 5951
with # 5943
also large stalks of C. verticillata f. phyllocephala (Therke) Olin. present

5956 Cladonia grayi f. simple Robbins ditto
(1) cups with tiny apothecia
around edge
Near # 5943
5956A = C. grayi f. simple Robbins.
(abundant in extensive patches.)

5957: *Cladonia verticillata* *serotina* (Th. Fr.) Steiner
5957a = " *verticillata* f. *phyllocephala* (Th. Fr.) Bull. Bull Run Mt., Va
in pine grove on ridge east of valley
road just below Prince William Co
old January 1, 1939

5957 (E) of Bererley Mill H.A. Allard.
ad N of railroad.

This extends to an old grave yard and
back grove a few hundred yards east
of old cellar site where drip runs from
stood - and large black walnut tree.

5958 *Cladonia streptilis* f. *coralloidea* (Ach.) Wain.
(1) (apothecia brown) ditto

near # 5957 on soil on High Point ridge
near High Point in oak chestnut woods here
(very squamulose)

5959 Moss

(1) on thin humus soil on rock
shelf at High Point, north of Bererley Mill
1 1/2 mile. ditto

5960 Hepatic: *Sclafania nemorosa* (L.) Dum.

(1) On soil in oak-chestnut woods
on east slope of High Point ridge
near Bererley Mill. ditto

5961 *Cladonia* ?

(1) crustose, yellowish green
on same rock shelf with # 5959 ditto

5962 *Cladonia*
(very squamulose)

(1) on soil with # 5960 ditto
= *Cladonia streptilis* f. *coralloidea* (Ach.) Wain.

5963 Moss or hepatic
on soil in woods on High Point
(1) ridge (east slope) near High Point
north of Bererley Mill 1 1/2 miles.
= *Sclafania nemorosa* (L.) Dum. ditto

Cladonia

on soil with

5964 # 5959

(1)

Cladonia coniocraea f. *ceratodes* (Floerke) Wain. ditto

Moss

5965

on rotten wood in oak
(1) chestnut woods near High Point ditto

5966 *Cladonia rangiferina* (L.) Web. ditto
on rock shelf with # 5959

(1) My second record, first for High Point
see # 5912

5967

Paeomyces (thallus)
+ liverwort or moss

(1)

= *Sclafania nemorosa* (L.) Dum.
Near # 5960 ditto

5967a = *Pertusaria pustulata* (Ach.) Duby.

5968

Cladonia ? *Parmelia saxatilis* (L.) Ach. ditto

(1) on black humus soil
with # 5959

5969

Moss
(brownish)

(1) on dead log in oak-chestnut
scrub near # 5963 - ditto

5970

Moss

(1) on dead wood on east slope
of High Point ridge near # 5963

Cladonia

In pine grove on ridge
north of railroad and
end of valley road
crossing trunk
1/1 just below (end) of Rensselaer Mill

Bull Run Mt., Va
January 1, 1939
Prince William Co
H. G. Allard

5971 *Cladonia chlorophaea* f. *lepidophora* (Tilberke) Sacc. det. (P+)

5972 *Cladonia*

1/1 on soil with # 5971

= *C. grayi* f. *simplex* Robbins. (P-)

5972a = *C. mitrula* f. *imbricatula* (Nyl.) Wain.
5972b = *C. streptilis* f. *coralloidea* (Ach.) Wain.

5973 *Cladonia*

5973b = *C. chlorophaea* (Tilberke) Spreng. (P+)

1/1 on soil with # 5971
5973c = *C. chlorophaea* (Tilberke) Spreng. f. *grayi* Mer. (P)

= *C. verticillata* f. *phyllocephala* (Plot.) Ohlstr.

5973a = " f. *evoluta* (Th. Fr.) Stein and f. *apotieta* (Ach.) Wain.

5974 *Cladonia*

on soil near # 5971

= *C. verticillata* f. *evoluta* (Th. Fr.) Stein.

5974a = " f. *evoluta* (Th.) Fr. Stein.

5975 *Cladonia*

1/1 on soil near # 5971

= *C. grayi* f. *simplex* Robbins. (P)

5976 *Cladonia*

1/1 5976b = *C. verticillata* f. *phyllocephala* (Plot.) Ohlstr. (P+)

= *C. verticillata* f. *phyllocephala* (Plot.) Ohlstr.

5976a = " P.P. f. *apotieta* (Ach.) Wain.

5977 *Cladonia*

1/1 on soil near # 5971

Cladonia

on soil near

5978 # 5971

1/1

Bull Run Mt., Va

January 1, 1939

H. G. Allard

Prince William Co.

5979 *Cladonia*

1/1 on soil near # 5971

5980

Cladonia tenuis (Tilberke) Harm. ditto

1/1 on soil near # 5971

5981

Cladonia

on soil near # 5971

5982

Cladonia
(apothecia of one sp. red)
Near # 5971

5983

Cladonia

1/1 on soil near # 5971

5984

Cladonia

1/1 on soil near # 5971

Cladonia Bull Run Mt., Va
Empire gorge just north of railroad on
ridge just east of Prince William Co
5985 of valley road crossing H.A. Allard
Trunks below east of Beresley Mill.

5986 *Cladonia* ditto
() On soil with # 5985

5987 *Cladonia* ditto
() On soil near # 5985

5988 *Cladonia* ditto
() On soil near # 5985

5989 *Cladonia* (apothecia red) ditto
() On soil near # 5985

5990 *Cladonia* ditto
() very squamulose
On soil near # 5990

5991 *Cladonia* ditto
() On soil near # 5985

Cladonia cristatella Bull Run Mt., Va
(apothecia red) January 1, 1939
5992 Prince William Co
H.A. Allard.
() On soil near # 5985 and *S. leucosia* (Pol.) Train
and 5992 A = *C. cristatella* f. *vestita* Tuck
5992 B = *C. chlorophaea* f. *simplex* (Hoffm.) Arn. P+

5993 *Cladonia* (the same with cups) ditto
() On soil near # 5985


5994 *Cladonia caespiticia* (Pers.) Th. Overke ditto
() On soil near # 5985
5994 A = *C. apodocarpa* Robbins mostly.

5995 *Cladonia papillaria* f. *stipitata* Th. Overke ditto
() On soil near # 5985

5996 *Cladonia* ditto
() On soil near # 5985

5997 *Cladonia* ditto
() On soil near # 5985

5998 *Cladonia* ditto
() On soil near # 5985

Cladonia 
in pine woods on ridge just East of
6013 of valley road where it crosses railroad klm
Beverly Mill.
on soil, moss #

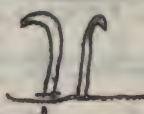
Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co

6014 Cladonia
|| on soil near # 6013
(apothecia brown)

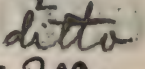
ditto

6015 Cladonia
|| on soil # 6013
(red apothecia; very squamulose)

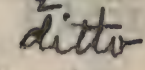
ditto

6016 Cladonia 
|| on rotten wood
near # 6013


ditto

6017 Cladonia subcariosa f. squamulosa Hoffm. 
|| on soil near # 6013
6017A = C. chlorophaea (Thoenke) Spreng. and C. neurota (Thoenke) Schaer (cup) and C. subcariosa Nyl.
6017B = C. grayi Mer.

ditto

6018 Cladonia grayi f. simplex Roffm. 
|| on soil near # 6013

ditto


6019 Cladonia verticillata (Hoffm.) Schaer 
|| (apothecia red) distinctive as to form.
on soil near # 6013

ditto

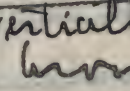
Cladonia Bull Run Mt., Va
on soil near # 6013 H.G. Allard
January 1, 1939
Prince William Co

6020

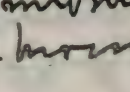
||

6021 Cladonia 
|| on soil near # 6013

ditto

6022 Cladonia verticillata (Hoffm.) Schaer 
|| (apothecia brown) not distinctive as to form.
on soil near # 6013

ditto

6023 Cladonia mitrula f. intricatula (Nyl.) Raim. 
|| (apothecia brown)
on soil near # 6013

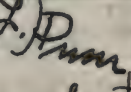
ditto

6024 Cladonia
|| on soil near # 6013

ditto

6025 Moss
|| on dead wood near # 6013

ditto

6026 ~~Moss~~ = Scleraria nemorosae R. 
|| Hepati.
on soil near # 6013
Cladonia Mixture of lads, not def. enough to det.

ditto

Cladonia
on soil in thin pine
wood on ridge N.E. of
6027 Bererley Mill

Bull Run Mt., Va
Prince William Co
January 1, 1939
H.A. Allard

" near rail road
" this just east of valley road leading to
Hoffnell Gap below Castillo's

6028 Cladonia baillensis (Ach.) Nyl. & Protia narrow
" (on thin soil near # 6027 ditto
and C. caespiticia (Pers.) Thöerke. mostly

6029 Moss
" on soil and rotten wood ditto
with # 6027

6030 Cladonia verticillata (Hoffm.) Schaer. ditto
" on soil near # 6027 distinct as to form,

6031 Cladonia
" on soil near # 6027 ditto

6032 Cladonia
" on soil near # 6027 ditto

6033 Cladonia incialis (L.) Web.
" (peculiar, low, compact)
" on rock shelf at High Point
just below highest outcrop.
(with # 5959) Cladonia incialis (L.) Web.
(appears different from others in Bull Run Mt.,

Peltigera (lichen)
on ground and rotten
wood at base of
6034 stump on High Point
" ridge near High Point

Bull Run Mt., Va
Prince William Co
January 1, 1939
H.A. Allard

6035 Lichen
" Large, lead gray. on ditto
old stump. very abundant
on trees, stumps, rocks etc.
near # 6034.

6036 dense growing dark green mass
" on sand stone boulder surface ditto
near ground in large, pure colonies.
can't be detached. mass in strong
competition with the yellowish green
lichen # 6037 a species of the mass
which had actually overgrown the mass
6037 I.C.M. at point of contact, preventing its spread,

" same mass as # 6036, with
lichen competing with it = sp. of ditto
This lichen common on rocks, trees etc.

6038 Rock lichens
" on sand stones & quartzites (recently, ditto
Cambrian) at High Point, Tranquill Co
North of Bererley Mill 1 1/2 miles.

6039 Rock lichens
" on same cliffs with # 6038 ditto

6040 On Rock lichens
" on same cliffs with # 6038 ditto

Rock lichens
on sandstones and
quartzites (Wesarton,
Cambrian) at
High Point N. of
Beverly Mill 1 1/2 miles

Bull Run Mt. Va
Fauquier Co
January 1, 1939
H.A. Allard

6041
Rock lichens
growing with # 6041

ditto

6042
Rock lichens
growing with # 6041

ditto

6043
Rock lichens
growing with # 6041

ditto

6044
Rock lichens
growing with # 6041

ditto

6045
Rock lichens
a dense, black series in
patches, appearing like smut
patches on the rocks: very abundant
near # 6041

ditto

6046
Moss: silvery color
In crevices of rock outcrops
directly in front of Beverly Mill
across railroad on cut here.

ditto

Moss
In rock crevice
near # 6047

6047

(1)

Bull Run Mt., Va
Fauquier Co
January 1, 1939
H.A. Allard

6048
Moss
(green)
In same place near # 6047

ditto

6049
Moss
In same place near # 6047

ditto

6050
Moss
In rock crevices near
6047

ditto

6051
Moss
In rock crevices near
6047

ditto

6052
Moss
In rock crevices near #
6047

ditto

6053
Moss
In rock crevices opposite
Beverly Mill with # 6047

ditto

Moss
on soil in thin pine
woods on ridge N.E. of
Beverly Mill, near
6055 railroad & just
East of valley road to Hatfield Gap.
Bull Run Mt., Va
January 1, 1939
H. G. Allard
Prince William Co

Moss and liverwort.
6056 on moist soil of brook
bank below little cemetery
where creek goes in, N.E.
of Beverly 1 mile
ditto

6057 Moss
on same brook bank
near #6056,
very beautiful, fern like, large,
ditto

6058 Moss
on same brook bank
with #6057
ditto

6059 Moss
on soil in pine woods
with #6055
Leucobryum albidum
ditto

6060 Moss
on dead wood near
#6055
ditto

6061 Moss
on dead wood near #6055
ditto

Moss
Leucobryum albidum
6062 on soil and
dead wood near #6055.
Bull Run Mt., Va
January 1, 1939
H. G. Allard
Prince William Co

Moss
on soil in thin pine
woods on ridge, N.E. of
Beverly Mill, near
6055 railroad at first
East of valley road to
Hafenell Gap.

Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co

6065e = *Cladonia squamosa* f. *phyllotrida* (Pataky) Wain.
6065 f = " " " " " "
6065 g = " " " " " "

Moss
Leucobryum albidum Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co

6062 on soil and
(1) dead wood near # 6055.
abundant here in pines

6063 *Cladonia*
(reindeer moss)
(1) common in pine woods
near # 6055; a common species
here

ditto

6064 Moss
(1) *Leucobryum albidum* ditto
In crevices on cliffs at High Point,
often completely filling them with
this moss on nearly vertical walls
so a line of green down the rock face.

6065 *Cladonia squamosa* (Scf.) Hoffm. Not distinct as to form.
(18) on damp rocks
sloping to horizontal, Tangier Co
loosely on humus, soil
at foot of High Point cliffs, very squamulose,
1 mile S. of Hafenell Gap.
dense mats. Podetia slender hollow at
tip. 6065g, *C. squamosa* (Scf.) Hoffm.
Not distinctive as to form.

6066
(1) *Cladonia* same as 6065, but "C. squamosa" f. *lanariella* Wain.
growing over and completely
smothering the moss with a
dense mat of squamules
for 3 cm. moss completely hidden
below. = *Cladonia squamosa* (Scf.) Hoffm.

ditto

6067
(2) Lichen (crustose)
on soil on rock shelf below
High Point cliffs

ditto

6068
(1) *Cladonia squamosa* (Scf.) Hoffm. Not distinct as to form.
on humus soil on flat of sloping
rocks at foot of High Point cliffs,
near # 6067

ditto

Lichen
on underside of
rock shelf at High Point
6069 cliffs; color yellow.

(1)

Bull Run Mt., Va
Fauquier Co
January 8, 1939
H.A. Allard

6070 *Cladonia didyma* f. *subulata* P. ex. ditto
(1) slender, whitish, pointed, sorediose.
On dead wood on High Point
cliffs near # 6069

6071 *Cladonia mailecta* f. *styracella* (Ach.) H. in. ditto
(1) On soil on dead wood
at High Point Cliffs. very sorediose

6072 Lichen, small clustered
(1) greenish, fruticose
on vertical quartz rocks
on other portion High Point cliffs.
Not abundant here: *Parmalina farinacea* (L.) Ach.

6073 On stems of *Kalmia latifolia*
(1) at High Point cliffs. ditto
a bluish gray *Parmelia*?
(*Neophromopsis ilicis* (Ach.) H. in. (sent to Evans by mistake
as was 6072.

6074 Lichen
(1) On soil on shelf at foot of
High Point Cliffs. ditto
crustose.

6075 Moss
(1) on rotten wood at
High Point Cliffs. ditto

Moss on rocks - adhering
too tightly to remove -
6076 on High Point cliffs H.A. Allard

(1)

6077 *Cladonia* on rock
(1) adhering too tightly to remove - on vertical rock faces
at High Point cliffs. ditto
= *Cladonia grayi* f. *aberrans* Asakina
(contains lactic acid but is P.).

6078
(1) Top of Rock lichens from
High Point cliffs ditto

6079 Rock lichens from High Point cliffs.
(1) The dark one on vertical
faces of pure quartz rocks, forming
small circular patches about the
size of a dollar or smaller ditto

6080 Rock lichens (top) from
(1) High Point cliffs. ditto

6081 Rock lichens (top)
(1) From High Point cliffs. ditto

6082 Moss
(1) on dead wood in woods
at High Point Cliffs. ditto

Mass
On soil in Castell's
field high up on
6083 slope just west of
the flag stone quarry
and spring at Hafersell Gap.
Bull Run Mt., Va
January 8, 1939
Fauquier Co.,
H.A. Allard

6084 Mass
On dead log in oak-chestnut
woods at High Point Cliffs. ditto

6085 Mass
On soil near # 6083, in
same field. ditto

6086 Mass
On thin soil on rocks
at High Point Cliffs ditto

6087 Mass
On thin brown soil on
rocks at High Point Cliffs. ditto

6088 Mass
On thin brown soil on
rocks at High Point Cliffs ditto

6089 Cladonia cristatella f. vestita Tuck. mostly
on soil in thin second-growth woods.
Bull Run Mt., Va
In woods west slope
below High Point just
west of barn and old
mansion near Hafersell to
Broad Run roadway, Fauquier Co
H.A. Allard
January 29, 1939

Cladonia strepsilis (Ach.)
on the bark at base of
6090 tree
near # 6089.
Bull Run Mt., Va
Fauquier Co
H.A. Allard
Jan. 29, 1939
In woods, west slope
below High Point.
Uncertain.

6091 Cladonia sp. (not enough to test) ditto
on soil near # 6089
apothecia red; podetia very squamulose

6092 Cladonia subcariosa f. squamulosa ditto
apothecia brown
on soil near # 6089
Roffins.

6093 Cladonia subcariosa f. squamulosa ditto
on soil near # 6089
Roffins.

6094 Cladonia subcariosa f. evoluta main ditto
apothecia brown
on soil with # 6089

6095 Lichen
fruticose - rather small
on rocks at High Point. ditto

6096 Gyrophora vellea. 3 ditto
on rocks at High Point
competing with Umbilicaria pustulata

Lichen
Umbilicaria pustulata

Bull Run Mt., Va.
Fauquier Co.
west slope below High Point
January 29, 1939
H.A. Allard.

- 6097 On rocks near
High Point - north
end: very abundant,
competing with *Cyrtophora pedicula* here.

6098

Moss.
On rocks crevices and seams
on limestone boulder in woods near
slope below High Point, dark
dark green. A nice species

ditto

6099

Cladonia
(reindeer moss)
on soil in thin, open young
second growth woods at foot of
High Point, west slope just east of
old barn & mansion.

ditto

6100

Grimmia
Moss.
on flat rocks near # 6098

ditto

6101

Moss
On rocks in woods near
6098

ditto

6102

Moss
On bark, base of tree
near # 6098

ditto

6103

Moss
On soil & rocks, dead
wood etc near # 6098.

ditto

January 29, 1939. To Hagerell Gap, Bull Run Mt., Va.
Rain all day from 10 A.M. on. Snow
at 2 P.M.: rainfall heavy then.

all higher plants other than Bull
Run in this book entered under
proper families with collection
numbers, (see large book naming
plants and copied by Mr. E.C. Leonard
642 4872 - 6471 inc (h 150)

This done July 19, 1940.
all higher plants of Bull Run area
entered under families with numbers to
end of this field collection book.

all higher plants in this book
other than Bull Run card indexed
to end March 1941.

All higher plants - ie all green
plants, ferns, lycophytes etc, except
lichens, mosses and hepatics from
Bull Run area card indexed and
checked March 11, 1941.

2 symbol = checked.

No lichens, fungi, mosses or liverworts
checked 2 on card indexed March 11,
1941.

